
Clean Copy of Replacement Pages for Brief Description of the Drawings

Brief Description of the Drawings

Fig. 1 is a block diagram of a computer system with a distributed processing system;

Figs. 2a-2b are block and flow diagrams of a distributed network management system;

Figs. 3a-3b are a block diagram of a logical system model;

Figs. 3c and 3e-3g are flow diagrams depicting a software build process using a logical system model;

Fig. 3d is a flow diagram illustrating a method for allowing applications to view data within a database;

Fig. 3h is a flow diagram depicting a configuration process;

Figs. 3i and 3l are flow diagrams depicting template driven network services provisioning processes;

Figs. 3j-3k and 3m-3o are screen displays of an OSS client and various templates;

Figs. 4a-4z, 5a-5z, 6a-6p, 7a-7y, 8a-8e, 9a-9n, 10a-10i, 11a-11m, 11p-11q, 11u and 11z are screen displays of graphical user interfaces;

Figs. 11n-11o are tables representing data in a configuration database;

Figs. 11r-11t and 11v-11w are tables representing data in a network management system (NMS) database;

Fig. 11x is a block and flow diagram representing the creation of a user profile logical managed object including one or more groups;

Fig. 11y is a block and flow diagram of a network management system implementing user profiles and groups across multiple databases;

Figs. 12a and 13a are block and flow diagrams of a computer system incorporating a modular system architecture and illustrating a method for accomplishing hardware inventory and setup;

Figs. 12b-12c and 14a-14f are tables representing data in a configuration database;

Fig. 13b is a block and flow diagram of a computer system incorporating a modular system architecture and illustrating a method for configuring the computer system using a network management system;

Figs. 13c and 13d are block and flow diagrams of an accounting subsystem for pushing network device statistics to network management system software;

Fig. 15 is a block and flow diagram of a line card and a method for executing multiple instances of processes;

Figs. 16a-16b are flow diagrams illustrating a method for assigning logical names for inter-process communications;

Fig. 16c is a block and flow diagram of a computer system incorporating a modular system architecture and illustrating a method for using logical names for inter-process communications;

Fig. 16d is a chart representing a message format;

Figs. 17-19 are block and flow diagrams of a computer system incorporating a modular system architecture and illustrating methods for making configuration changes;

Fig. 20 is a block and flow diagram of a computer system incorporating a modular system architecture and illustrating a method for distributing logical model changes to users;

Fig. 21 is a block diagram of a computer system incorporating a modular system architecture and illustrating a method for making a process upgrade;

Fig. 22 is a block diagram representing a revision numbering scheme;

Fig. 23 is a block and flow diagram of a computer system incorporating a modular system architecture and illustrating a method for making a device driver upgrade;

Fig. 24 is a block diagram representing processes within separate protected memory blocks;

Fig. 25 is a block and flow diagram of a line card and a method for accomplishing vertical fault isolation;

Fig. 26 is a block and flow diagram of a computer system incorporating a hierarchical and configurable fault management system and illustrating a method for accomplishing fault escalation.

Fig. 27 is a block diagram of an application having multiple sub-processes;

Fig. 28 is a block diagram of a hierarchical fault descriptor;

Fig. 29 is a block and flow diagram of a computer system incorporating a distributed redundancy architecture and illustrating a method for accomplishing distributed software redundancy;

Fig. 30 is a table representing data in a configuration database;

C!
cont

Figs. 31a-31c, 32a-32c, 33a-33d and 34a-34b are block and flow diagrams of a computer system incorporating a distributed redundancy architecture and illustrating methods for accomplishing distributed redundancy and recovery after a failure;

Figs. 35a-35b are block diagrams of a network device;

Figs. 36a-36b are block diagrams of a portion of a data plane of a network device;

Fig. 37 is a block and flow diagram of a network device incorporating a policy provisioning manager;

Figs. 38 and 39 are tables representing data in a configuration database;

Fig. 40 is an isometric view of a network device;

Figs. 41a-41c are front, back and side block diagrams, respectively, of components and modules within the network device of Fig. 40;

Figs. 42a-42b are block diagrams of dual mid-planes;

Fig. 43 is a block diagram of two distributed switch fabrics and a central switch fabric;

Fig. 44 is a block diagram of the interconnections between switch fabric central timing subsystems and switch fabric local timing subsystems;

Figs. 45a-45b are block diagrams of a switch fabric central timing subsystem;

Fig. 46 is a state diagram of master / slave selection for switch fabric central timing subsystems;

Figs. 47a-47b are block diagrams of a switch fabric local timing subsystem;

Fig. 48 is a state diagram of reference signal selection for switch fabric local timing subsystems;

Fig. 49 is a block diagram of the interconnections between external central timing subsystems and external local timing subsystems;

Figs. 50a-50c are block diagrams of an external central timing subsystem;

Fig. 51 is a timing diagram of a first timing reference signal with an embedded second timing signal;

Fig. 52 is a block diagram of an embeddor circuit;

Fig. 53 is a block diagram of an extractor circuit;

Figs. 54a-54b are block diagrams of an external local timing subsystem;

Figs. 55a-55c are block diagrams of an external central timing subsystem;

C!
cont

Fig. 56 is a block diagram of a network device connected to test equipment through programmable physical layer test ports;

Fig. 57 is a block and flow diagram of a network device incorporating programmable physical layer test ports;

Fig. 58 is a block diagram of a test path table;

Fig. 59 is a block and flow diagram of a network management system incorporating proxies to improve NMS server scalability;

Figs. 60a-60n are tables representing data in a configuration database;

Fig. 61a is a block diagram representing a physical managed object;

Fig. 61b is a block diagram representing a proxy;

Fig. 62 is a screen display of a dialog box;

Figs. 63a-63b are block diagrams of a network device connected to an NMS;

Fig. 64 is a table representing data in an NMS database;

Fig. 65 is a block and flow diagram of a threshold management system;

Fig. 66a-66e are screen displays of a graphical user interface;

Fig. 67 is a screen display of a threshold dialog box;

Figs. 68, 69a-69b, 70a-70b and 71 are tables representing data in a configuration database;

Fig. 72a is a front, isometric view of a power distribution unit;

Fig. 72b is a rear, isometric view of the power distribution unit of Fig. 72a without a cover;

Fig. 73a is a rear, isometric view of a network device chassis including dual midplanes;

Figs. 73b-73c are enlarged views of portions of Fig. 73a; and

Fig. 74 is a block and schematic diagram of a portion of a module including a power supply circuit.

C1
cont

TO 220 92695260

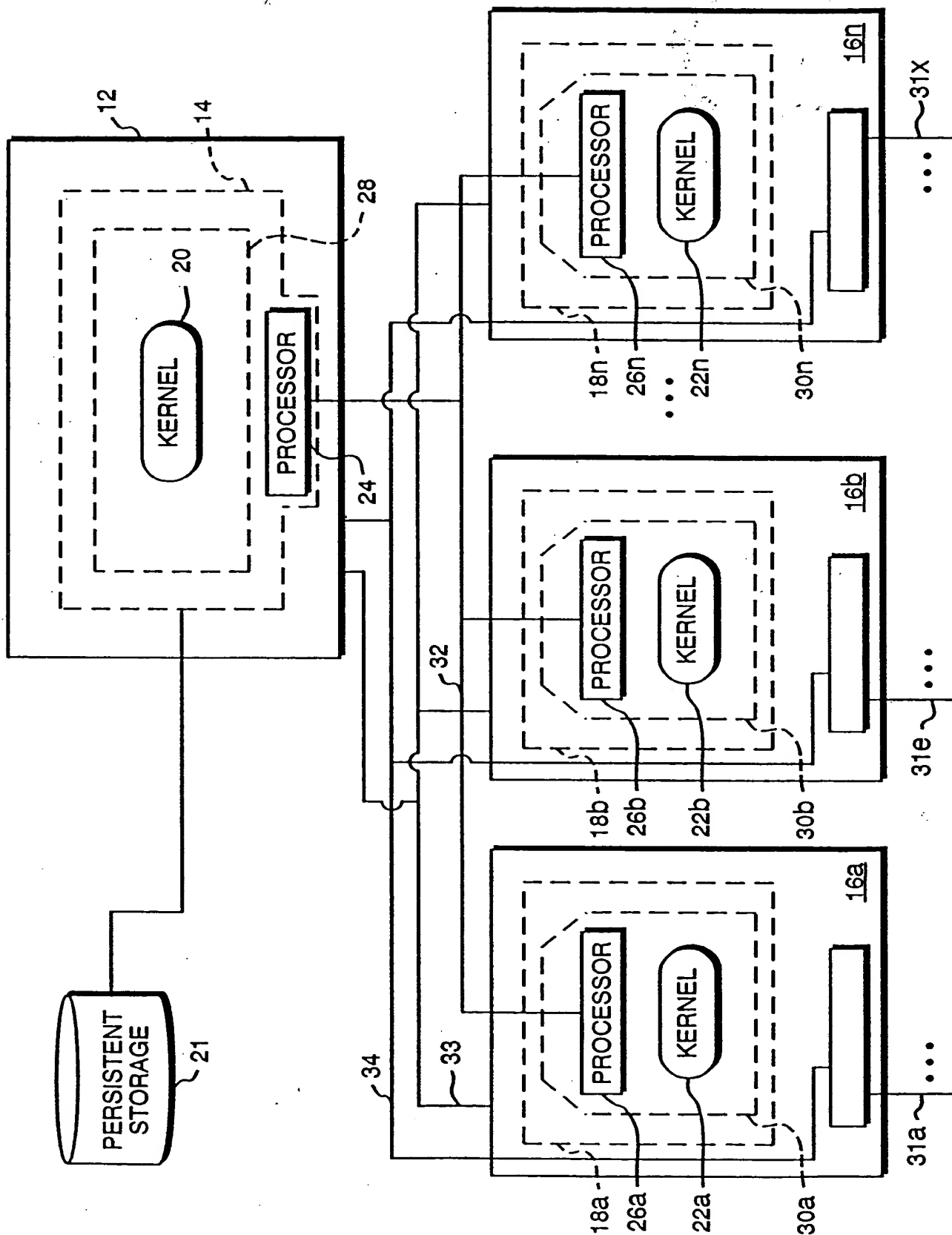


FIG. 1

FIG. 2A

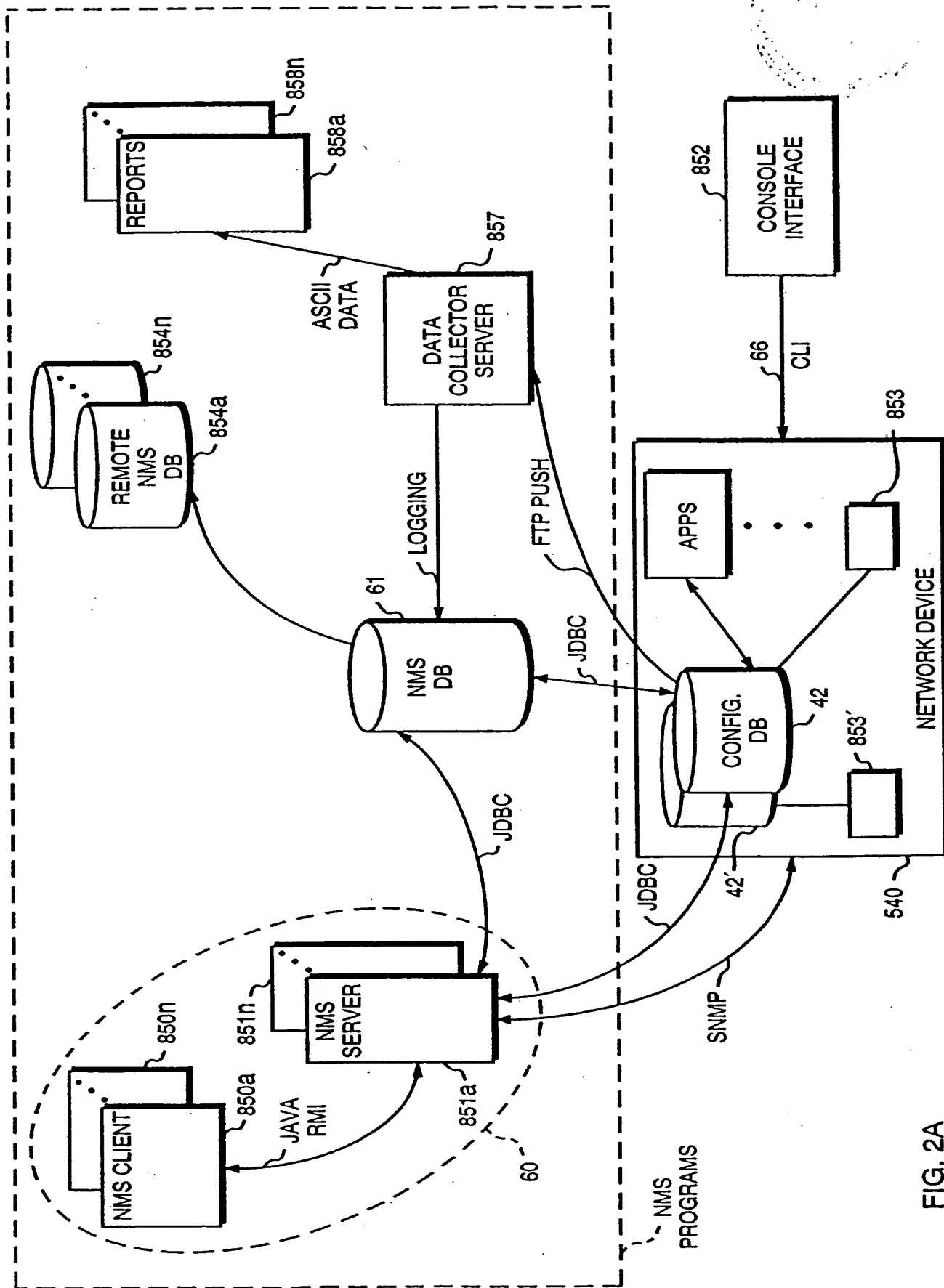


FIG. 2A

102689-67

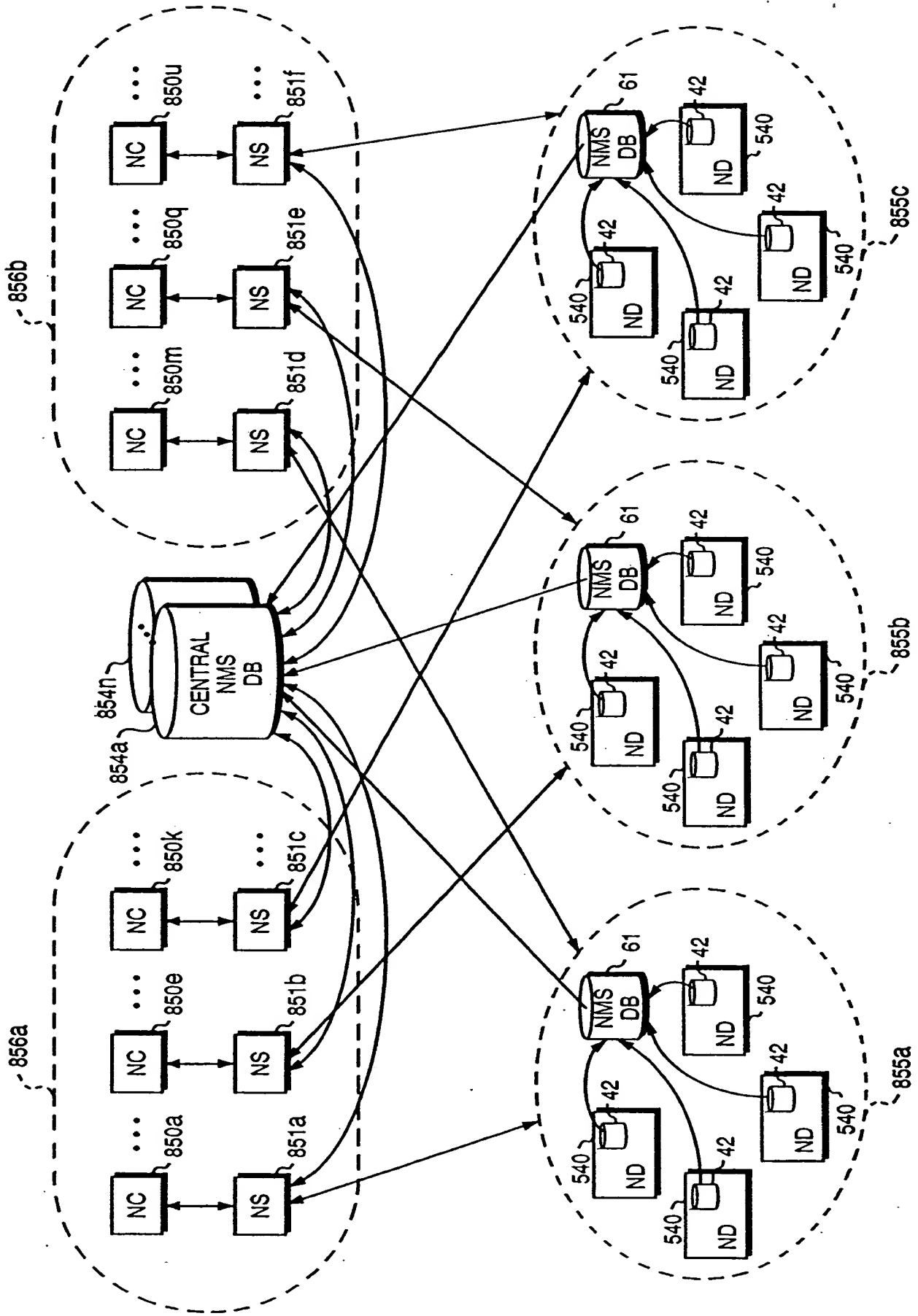


FIG. 2B

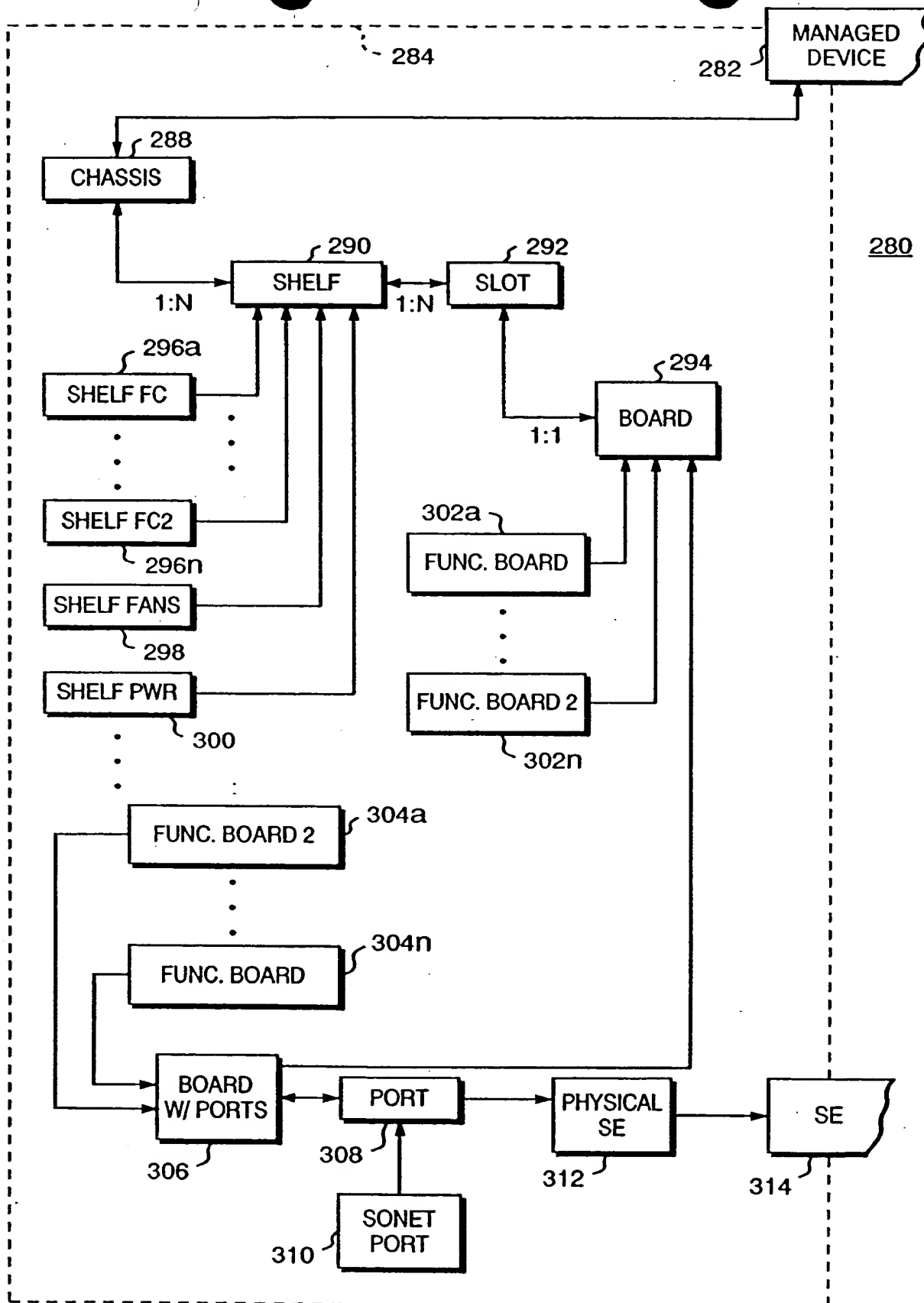


FIG. 3A

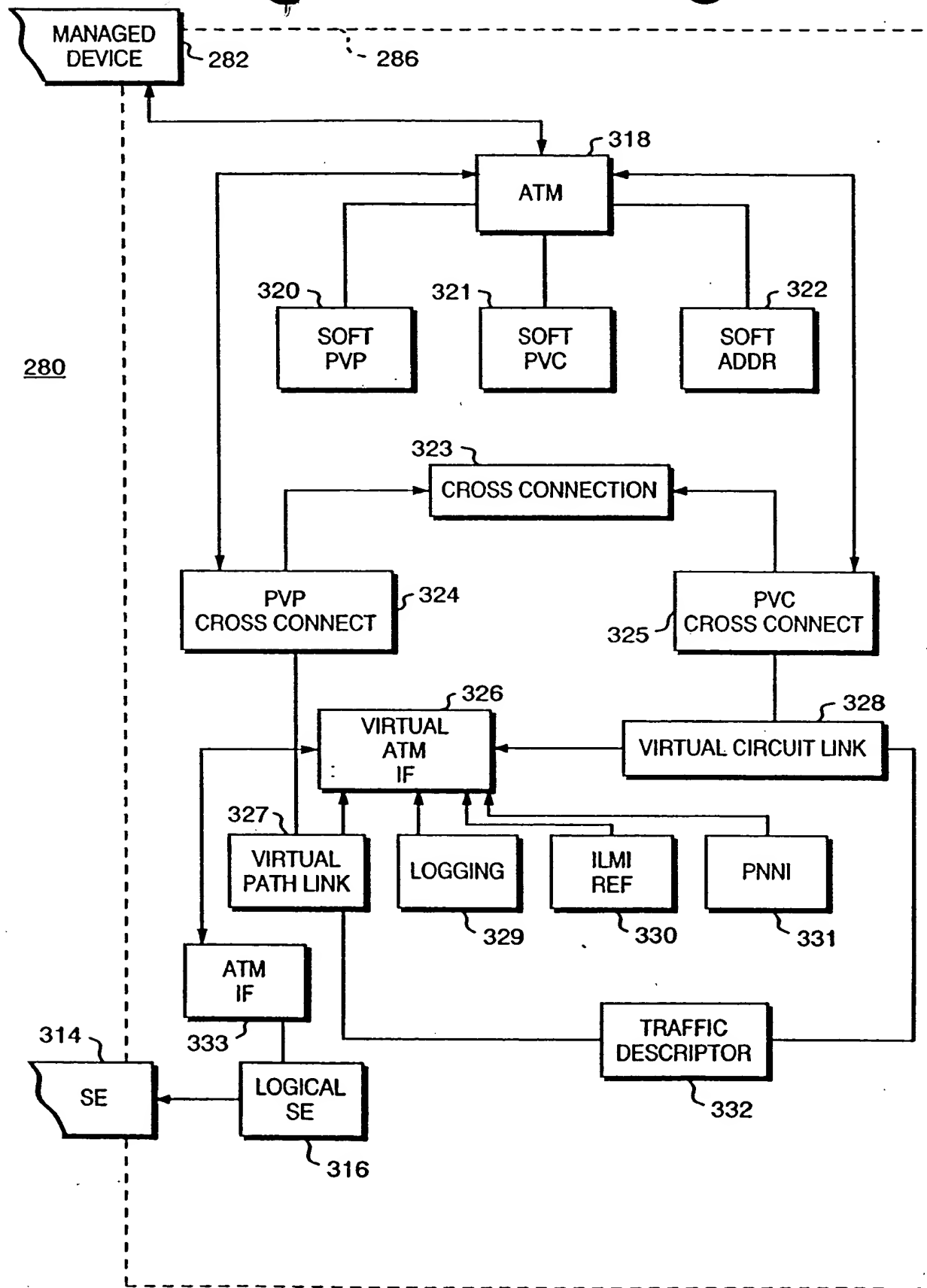


FIG. 3B

102689-67

TO 220-92695260

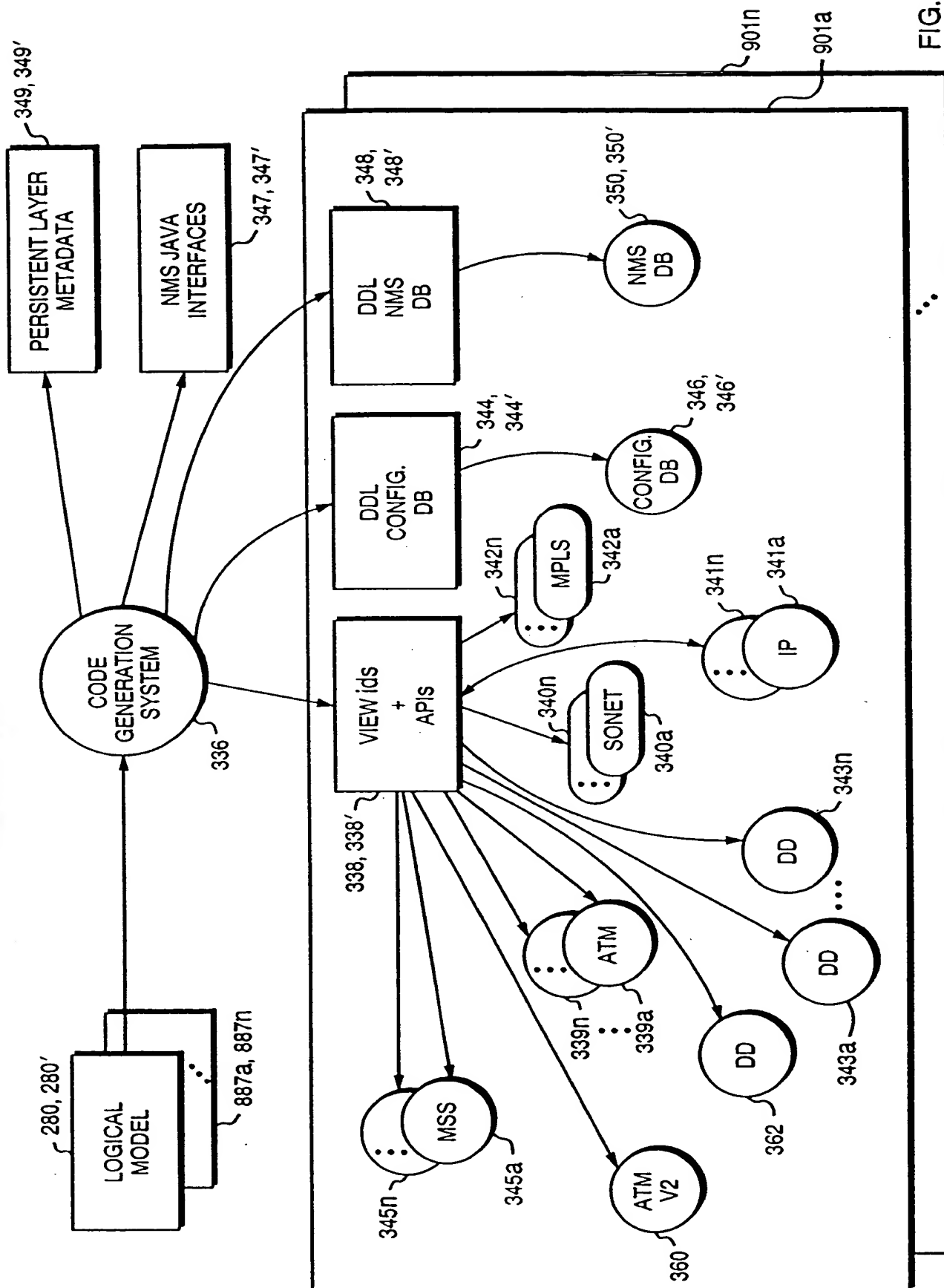


FIG. 3C

102280-9E695260

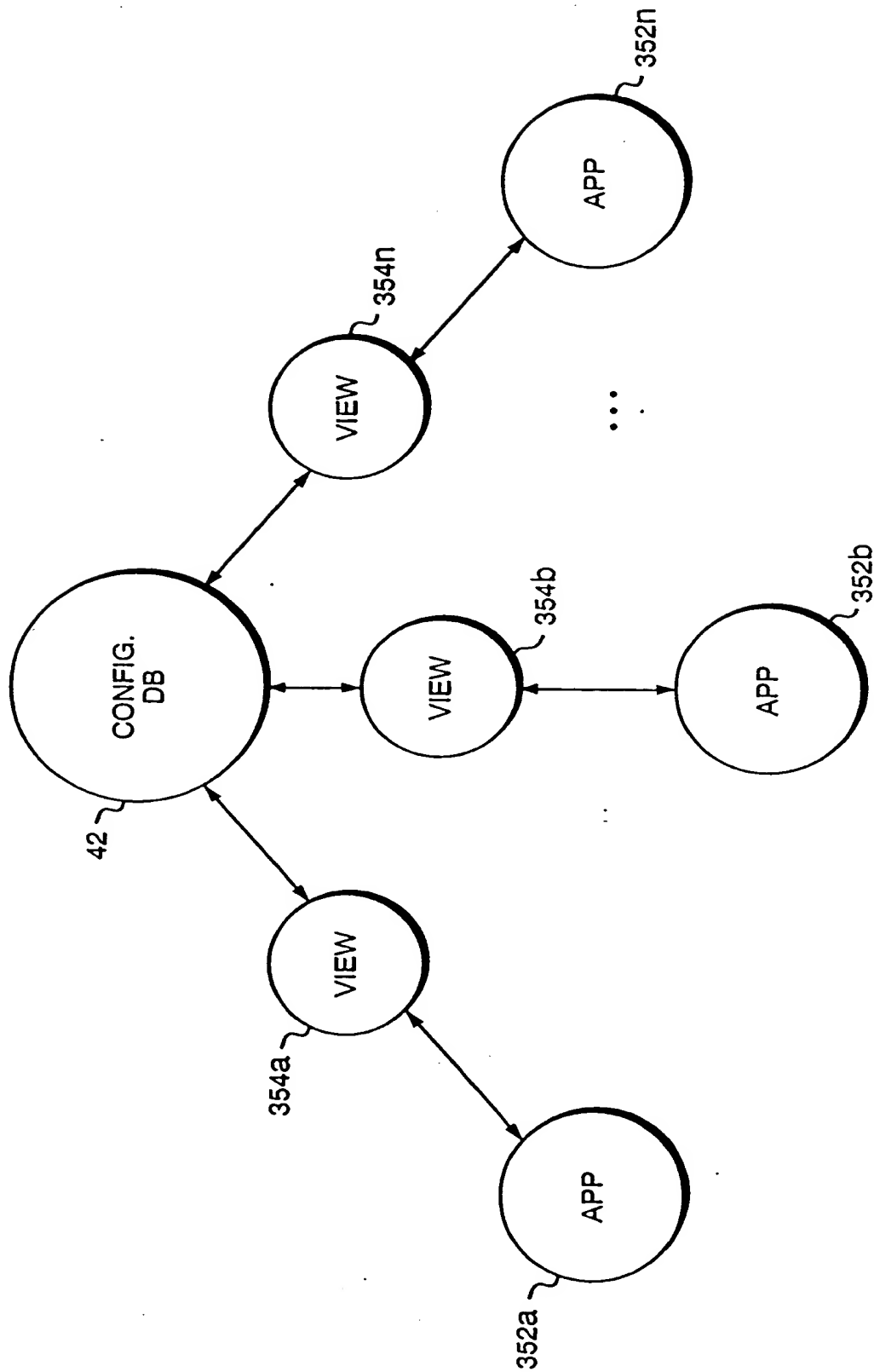


FIG. 3D

TO 280-9E695Z60

BUILD SONET APPLICATION

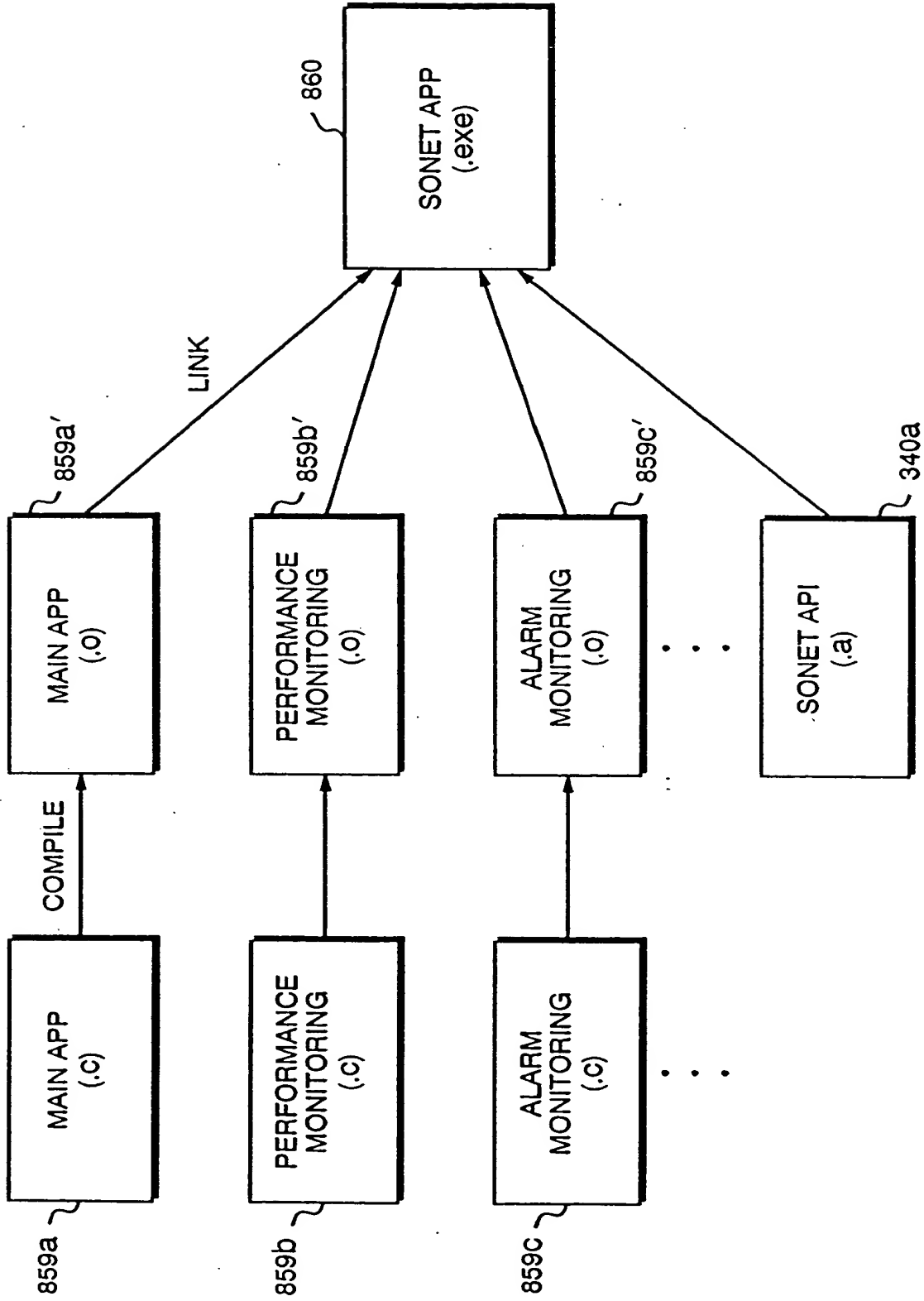


FIG. 3E

10/280-22695/60

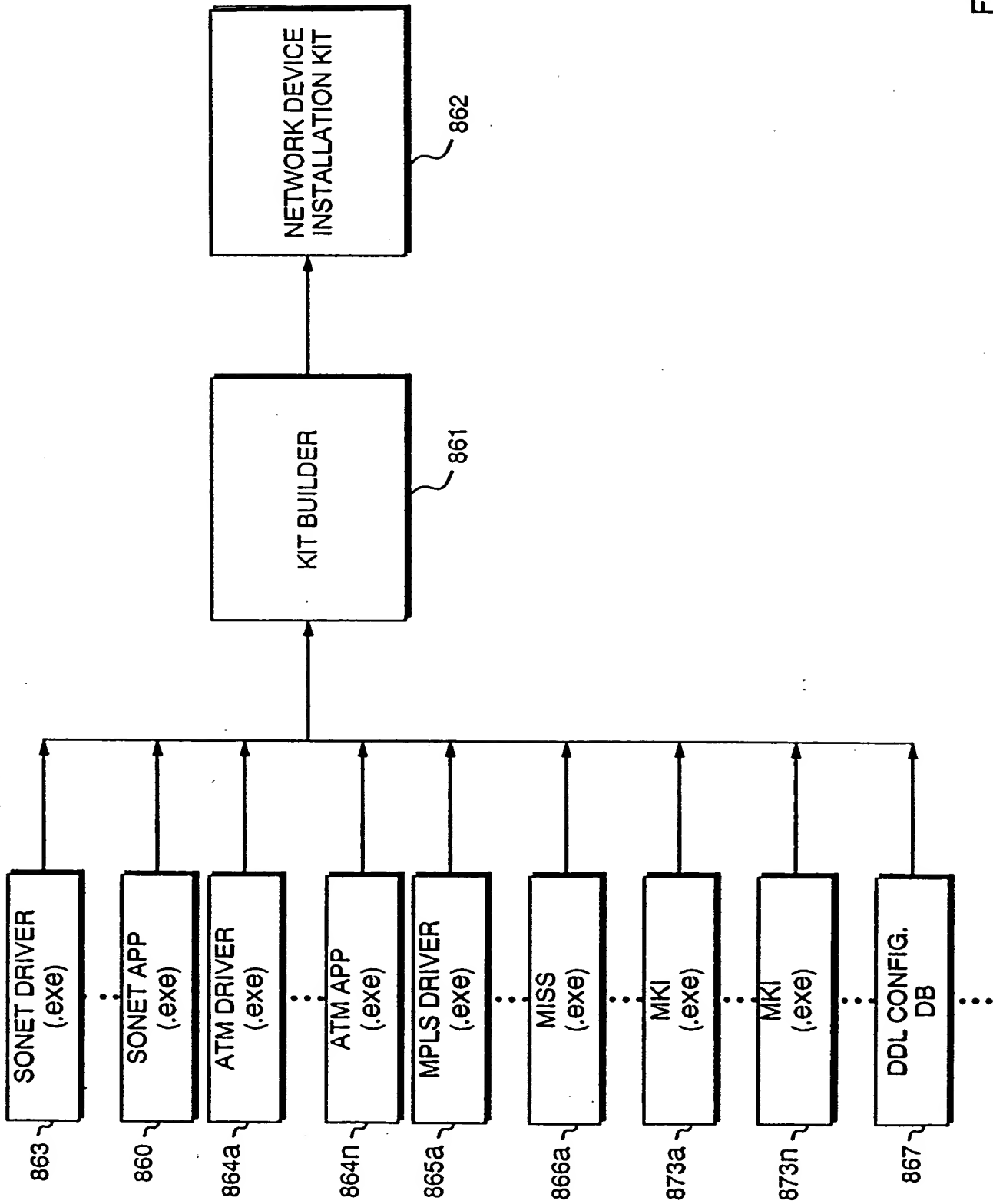


FIG. 3F

FIG. 3G

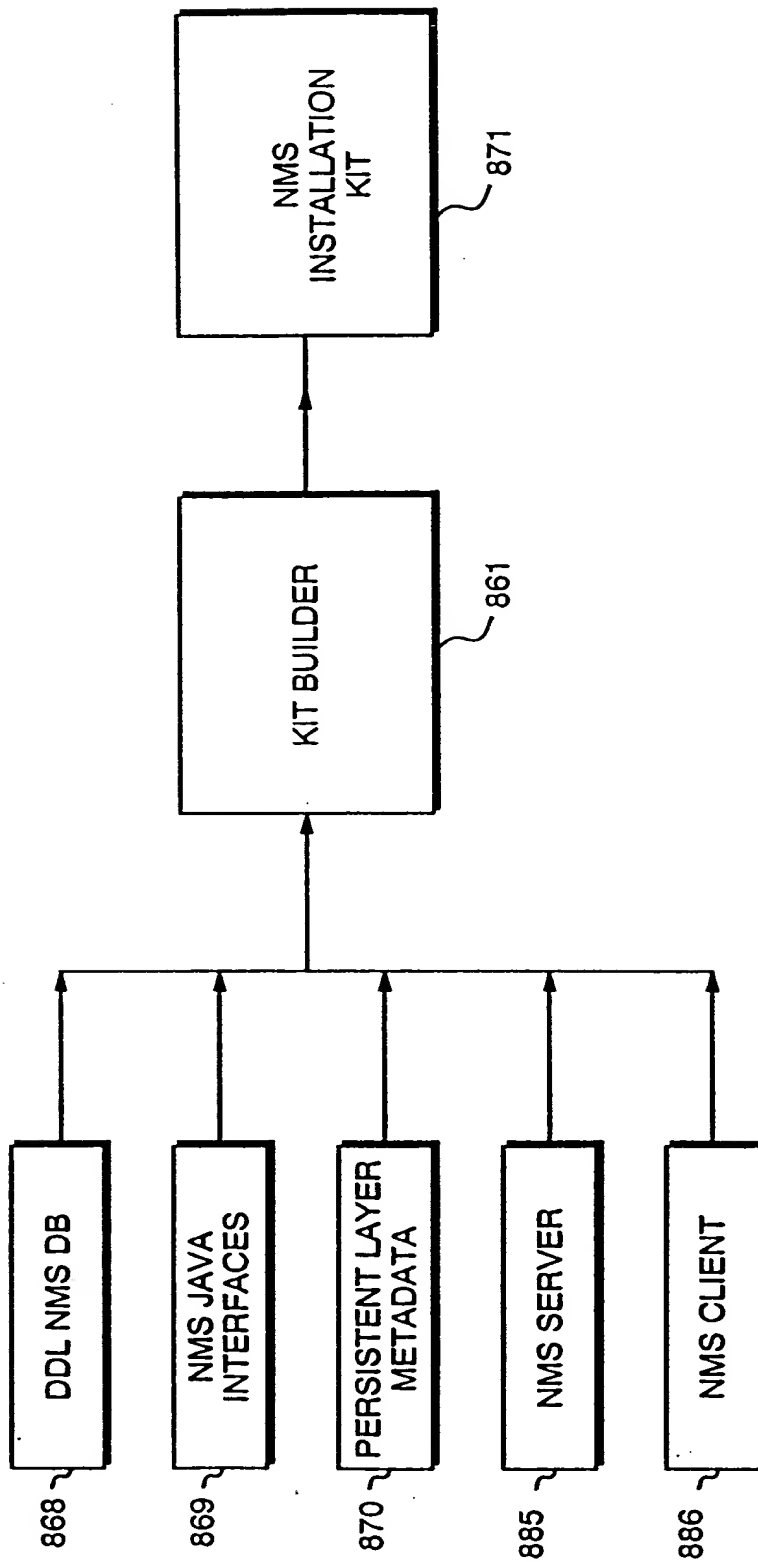


FIG. 3G

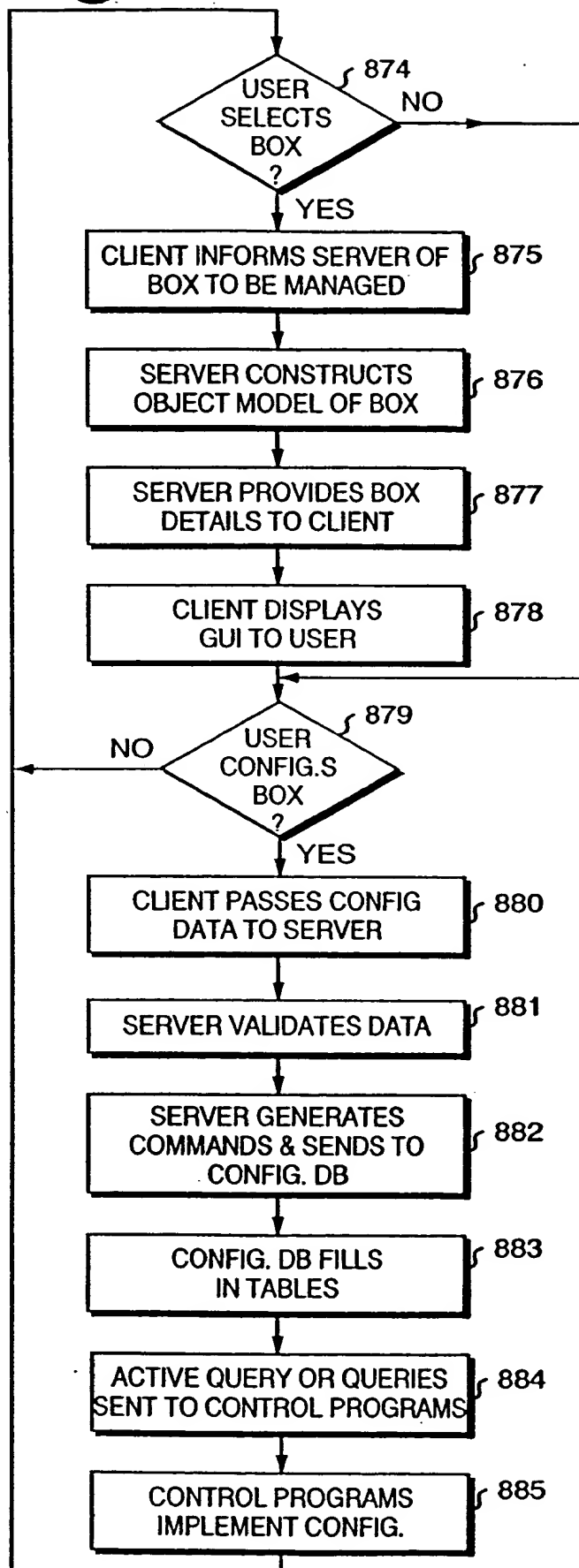


FIG. 3H

FOI 200-92695260

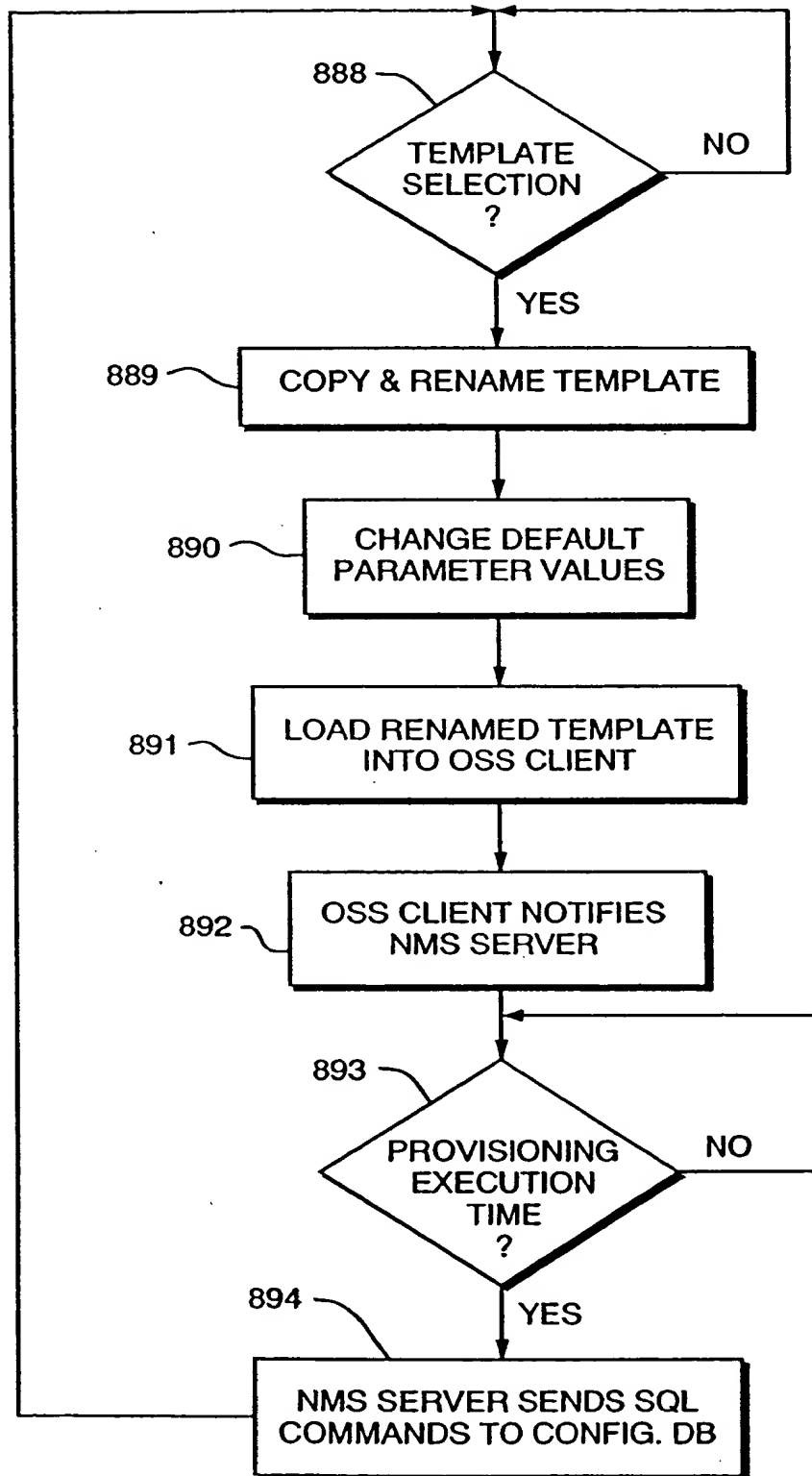


FIG. 3I

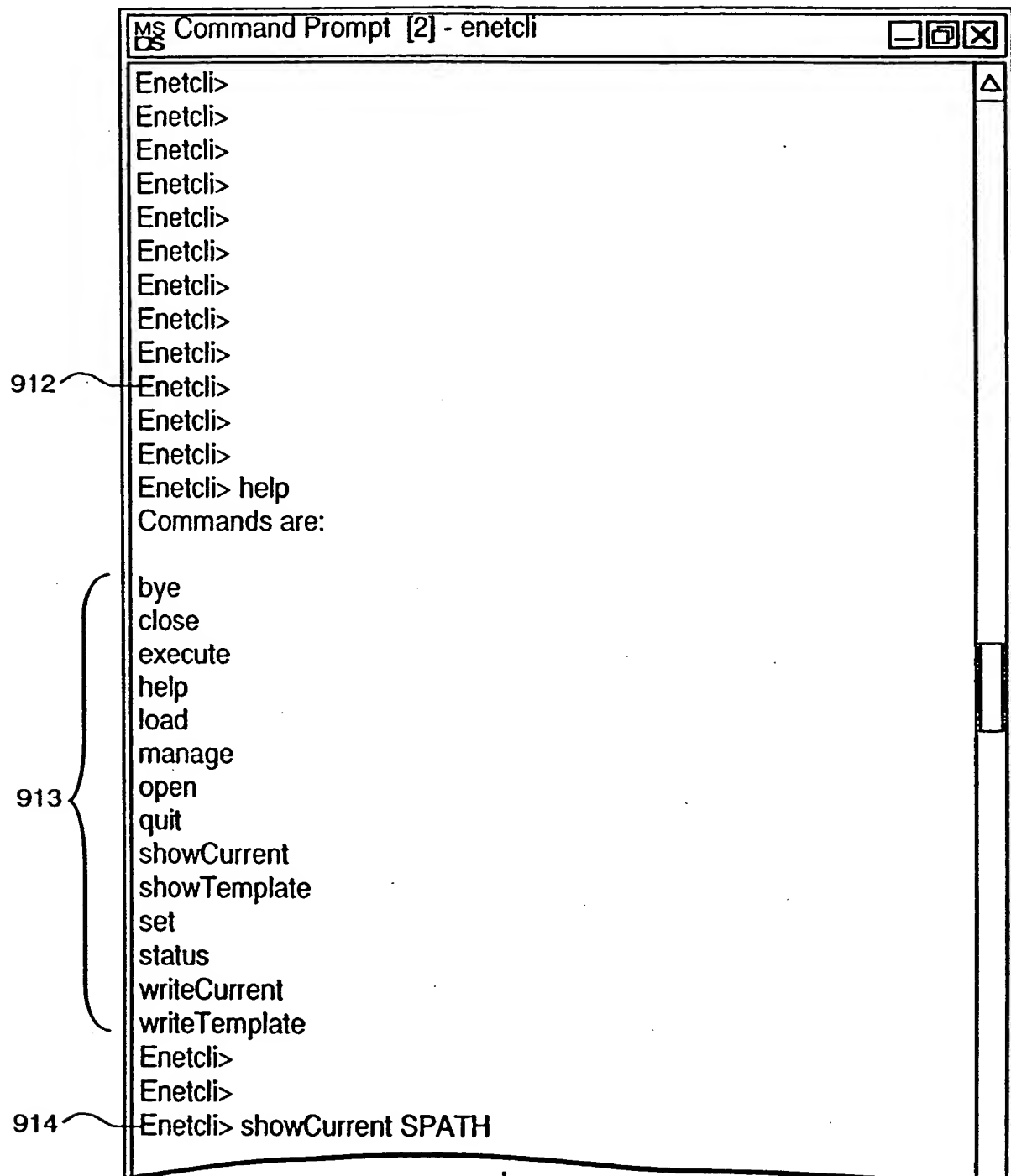


FIG. 3J

FROM FIG. 3J

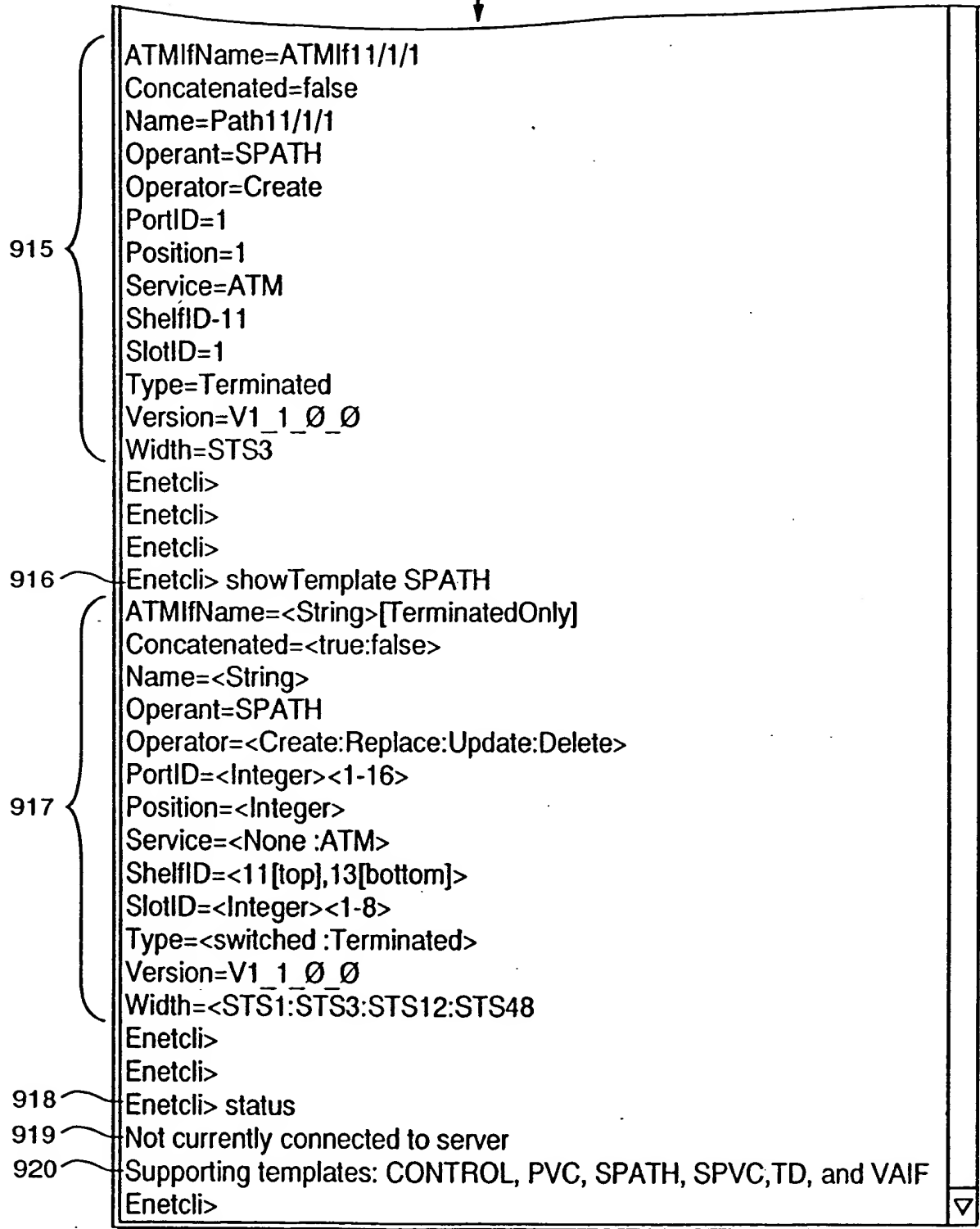


FIG. 3K

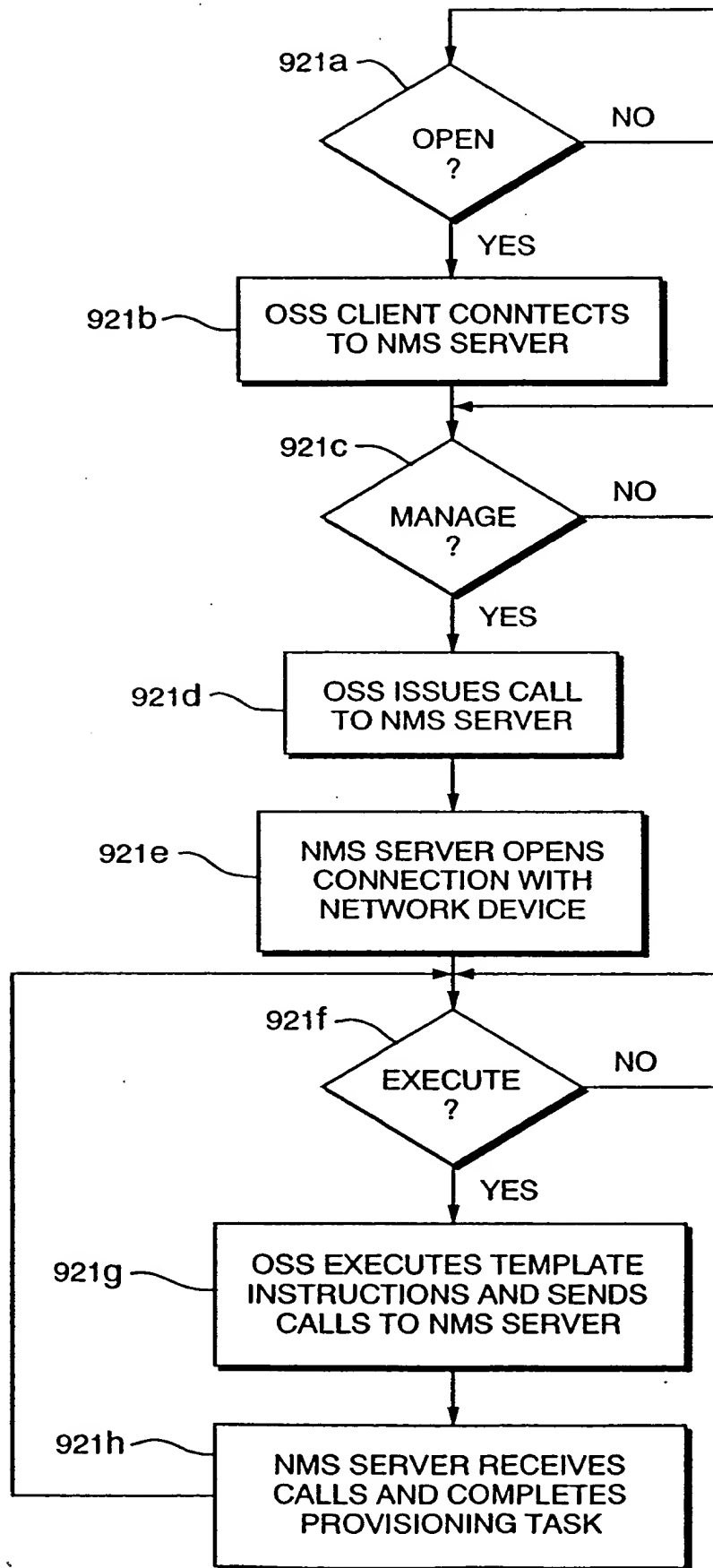


FIG. 3L

102689-67

ms Command Prompt [2] - enetcli

```
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
922 Enetcli> showCurrent CONTROL
input=Q:\nms\com\equipecom\nms\utils\enetcli
Interactive=false
Operant=CONTROL
923d Operator=Manage
923f Output=Q:\nms\com\equipecom\nms\utils\enetcli
923c Password=None
923e System=192.168.9.202
923b User=None
923g Version=V1_1_0_0
923a Server=localhost
Enetcli>_
```

FIG. 3M

BATCH

924

Operant=BATCH

Operator=Execute

Version=V1_1_0_0

- 924a ~ TASK1=execute-SPATH
- 924b ~ TASK2=execute-PVC
- 924c ~ TASK3=execute-SPVC
- 924d ~ TASK4=load-SPVC-spvc1
- 924e ~ TASK5=execute-SPVC
- 924f ~ TASK6=load-SPVC-spvc2
- 924e ~ TASK7=execute-SPVC
- .
- .
- 924g ~ TASK50=set-SPATH-PortID-3
- 924h ~ TASK51=execute-SPATH
- 924i ~ TASK52=set-SPATH-SlotID-2
- 924j ~ TASK53=execute-SPATH

FIG. 3N

10/28/94 9:55/60

925

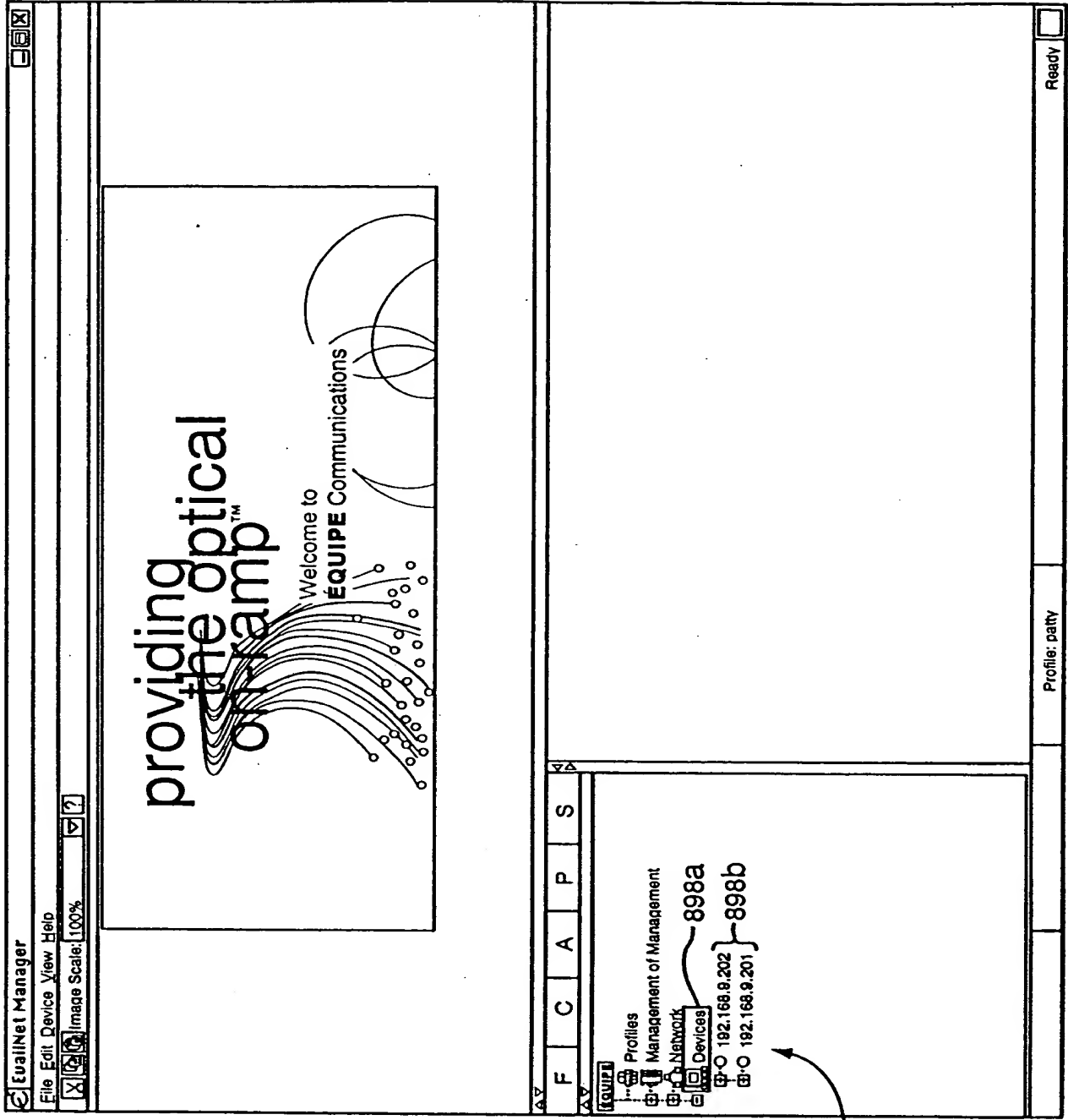
Operant=BATCH
 Operator=Execute
 Version=V1_1_0_0
 925a ~ TASK1=execute-CONTROL
 925b ~ TASK2=execute-SPATH
 925c ~ TASK3=set-SPATH-PortID-3
 925d ~ TASK4=execute-SPATH
 .
 .
 925e ~ TASK61=set-CONTROL-System-192.168.9.201
 925f ~ TASK62=execute-CONTROL
 925g ~ TASK63=execute-SPATH
 .
 .
 925h ~ TASK108=close
 925i ~ TASK109=set-CONTROL-Server-Server1
 925j ~ TASK110=set-CONTROL-System-192.168.8.200
 925k ~ TASK111=execute-CONTROL
 925l ~ TASK112=execute-SPATH
 .
 .
 .

FIG. 30

T07280 9E695/60

10/23/2003 9:56:54 AM

895



898

FIG. 4A

10/28/2006 9:55:52 AM

895

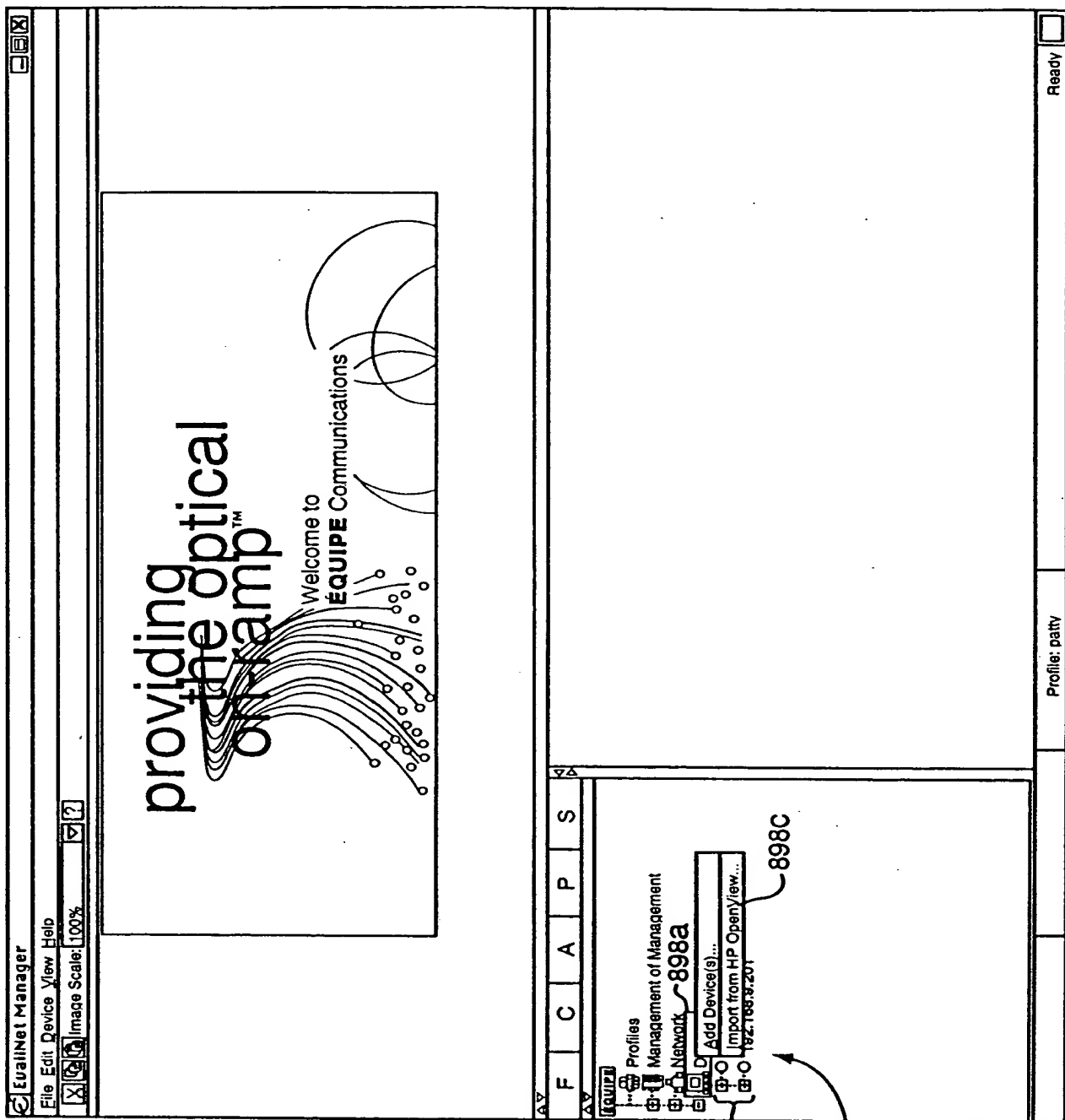


FIG. 4B

AddDeleteDeviceDlg

Enter device to add 898e

192.168.9.203

☒ Manage device in on-line mode

Add 898f

Device List

On-Line Device

OK Cancel Delete

898d

FIG. 4C

AddDeleteDeviceDlg

Enter device to add 898e

☒ Manage device in on-line mode

Add 898f

Device List

On-Line Device

☒ 192.168.9.203 898g

OK Cancel Delete

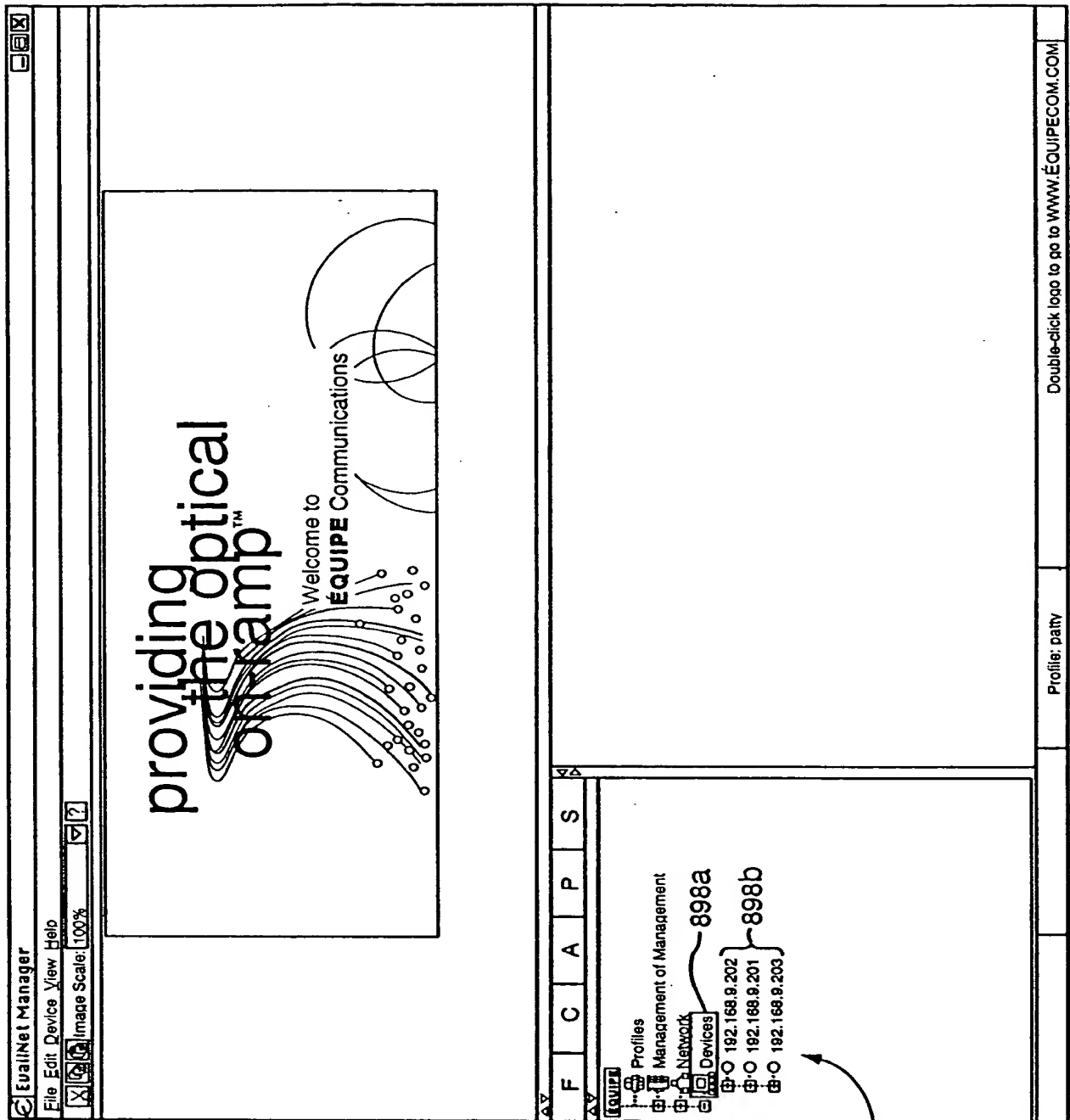
898j 898h 898i

898d

FIG. 4D

10/28/99 9:54:50

895



898

FIG. 4E

10/23/99 9:55:46

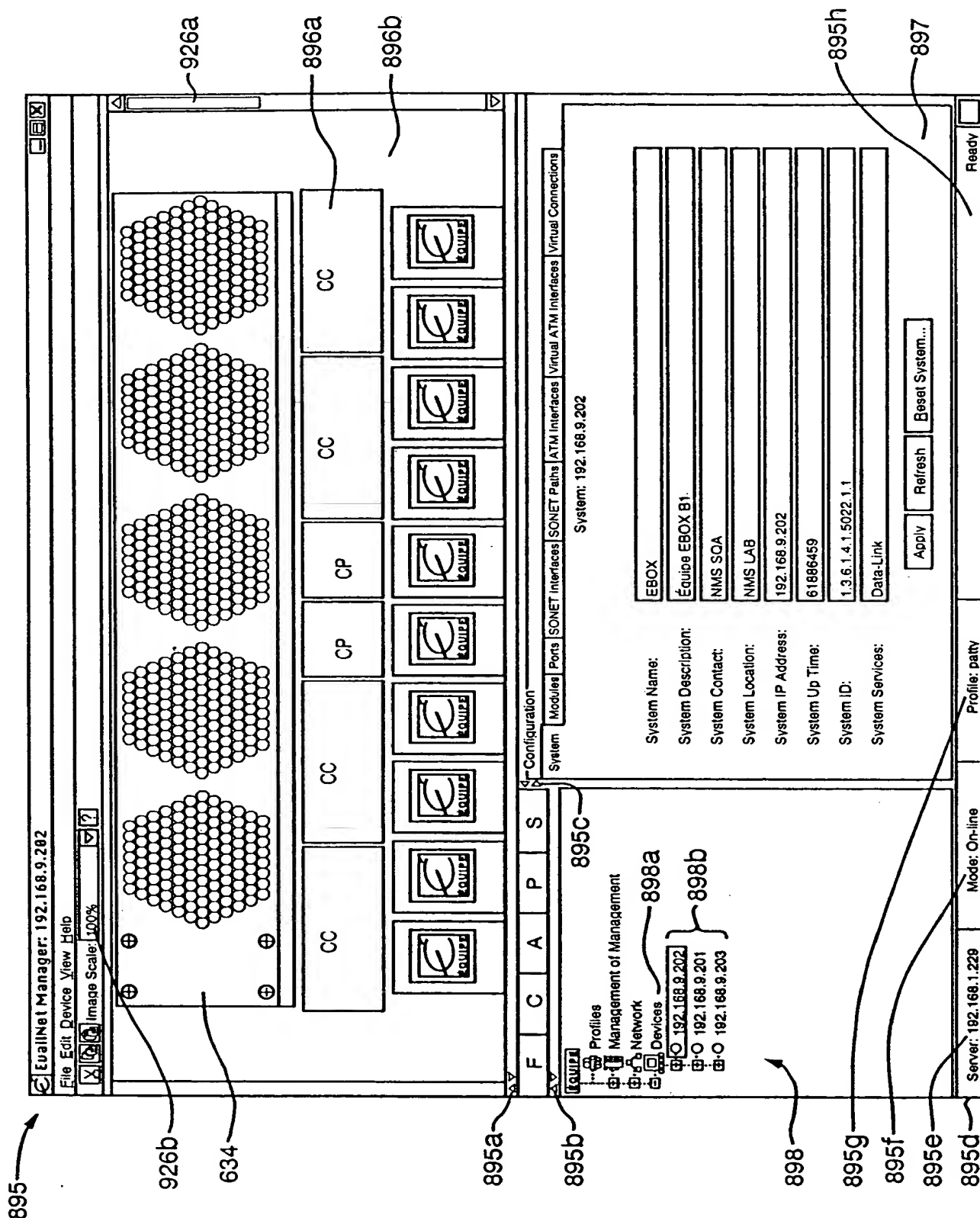


FIG. 4F

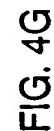


FIG. 4G

10/280 9E695/60

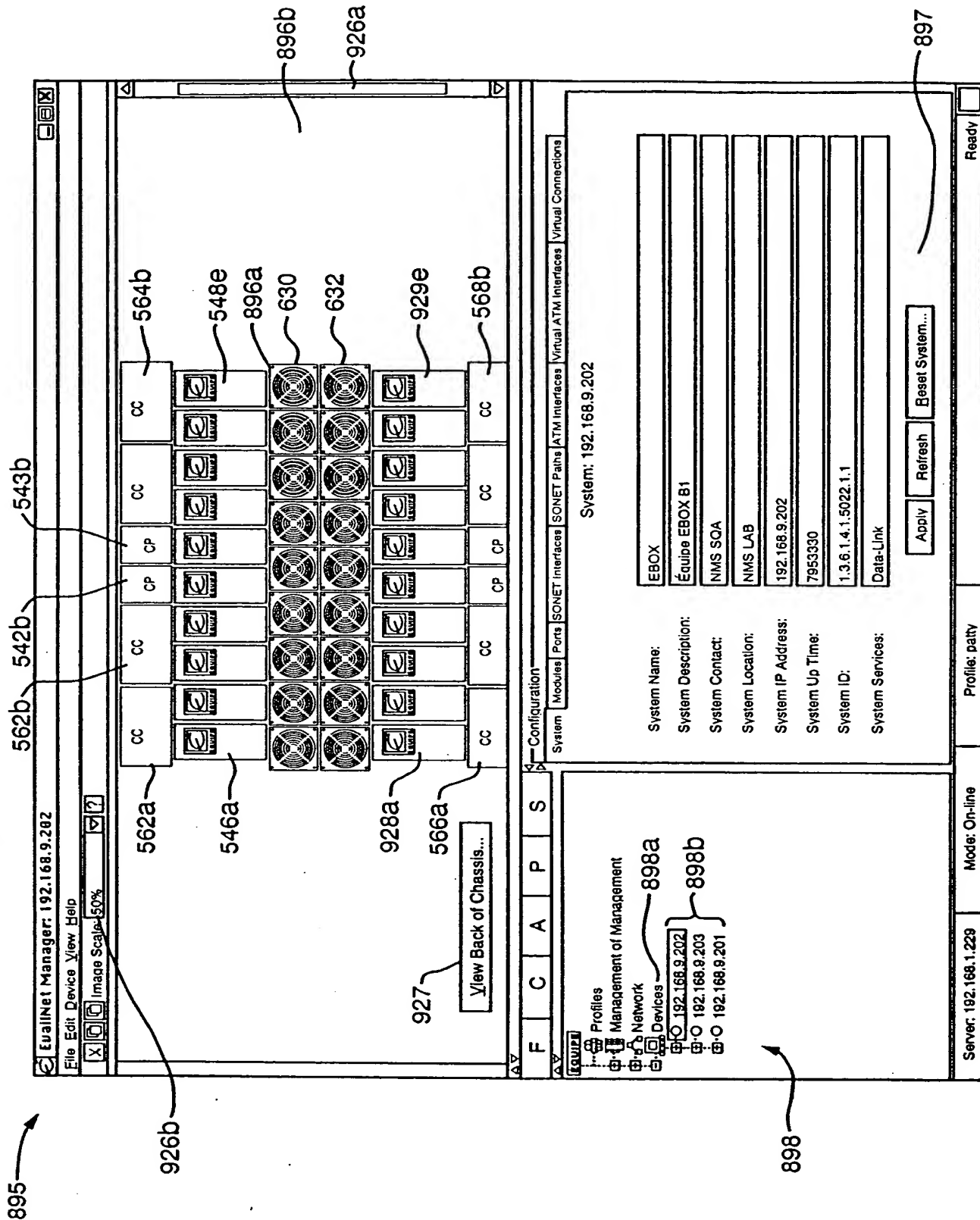


FIG. 4H

10/280 92695/60

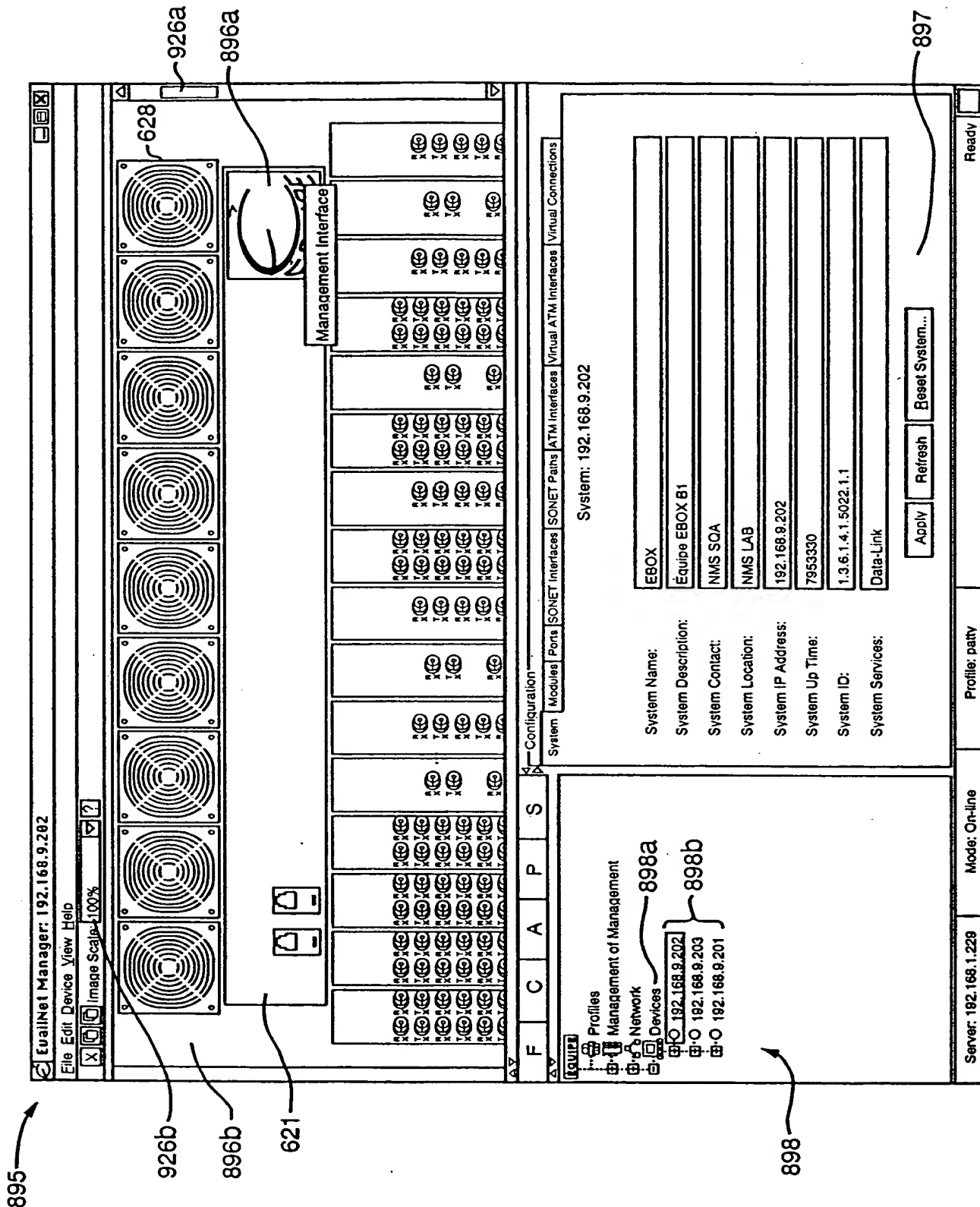


FIG. 4I

102689-67

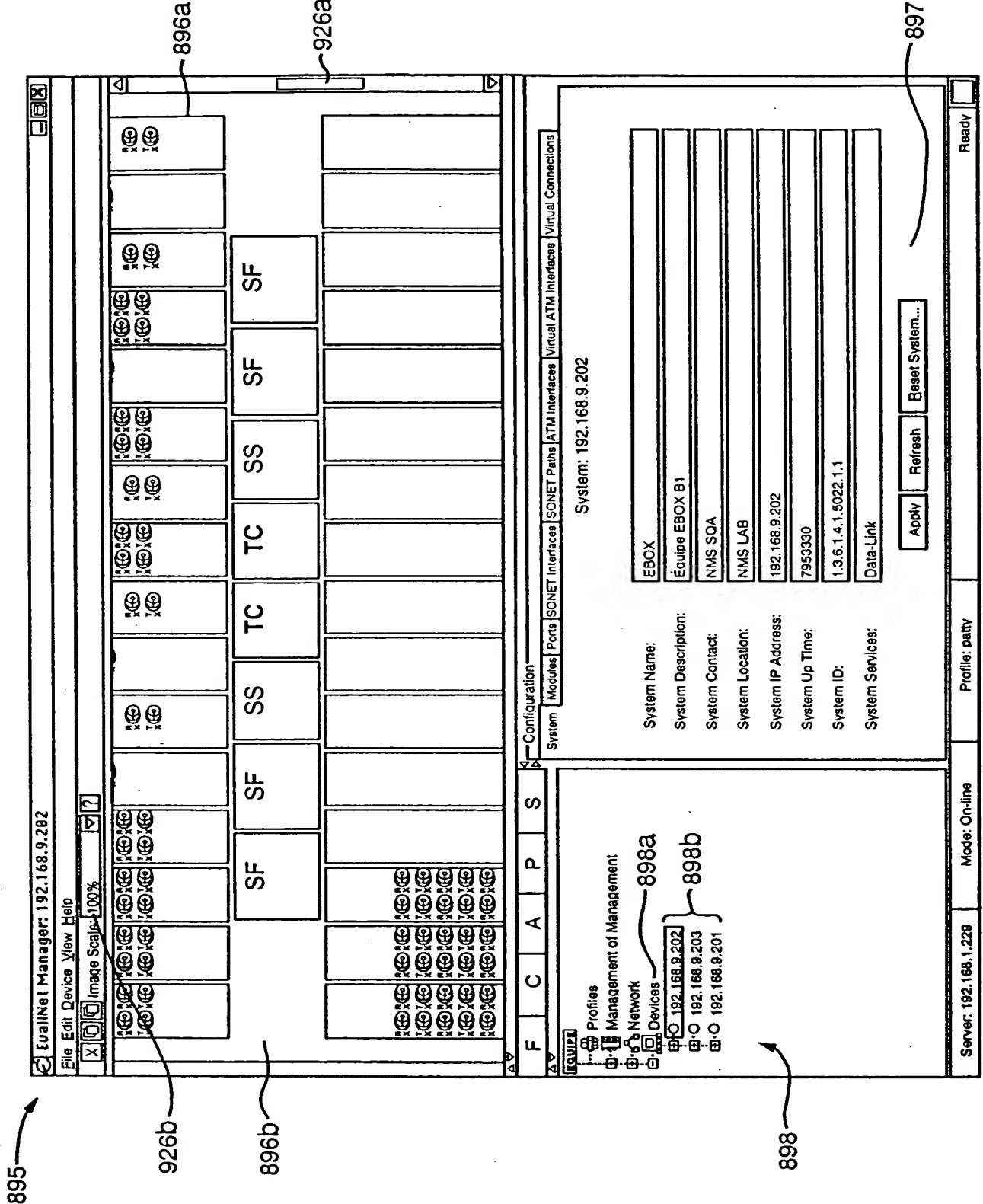


FIG. 4J

10/280" 9E695/60

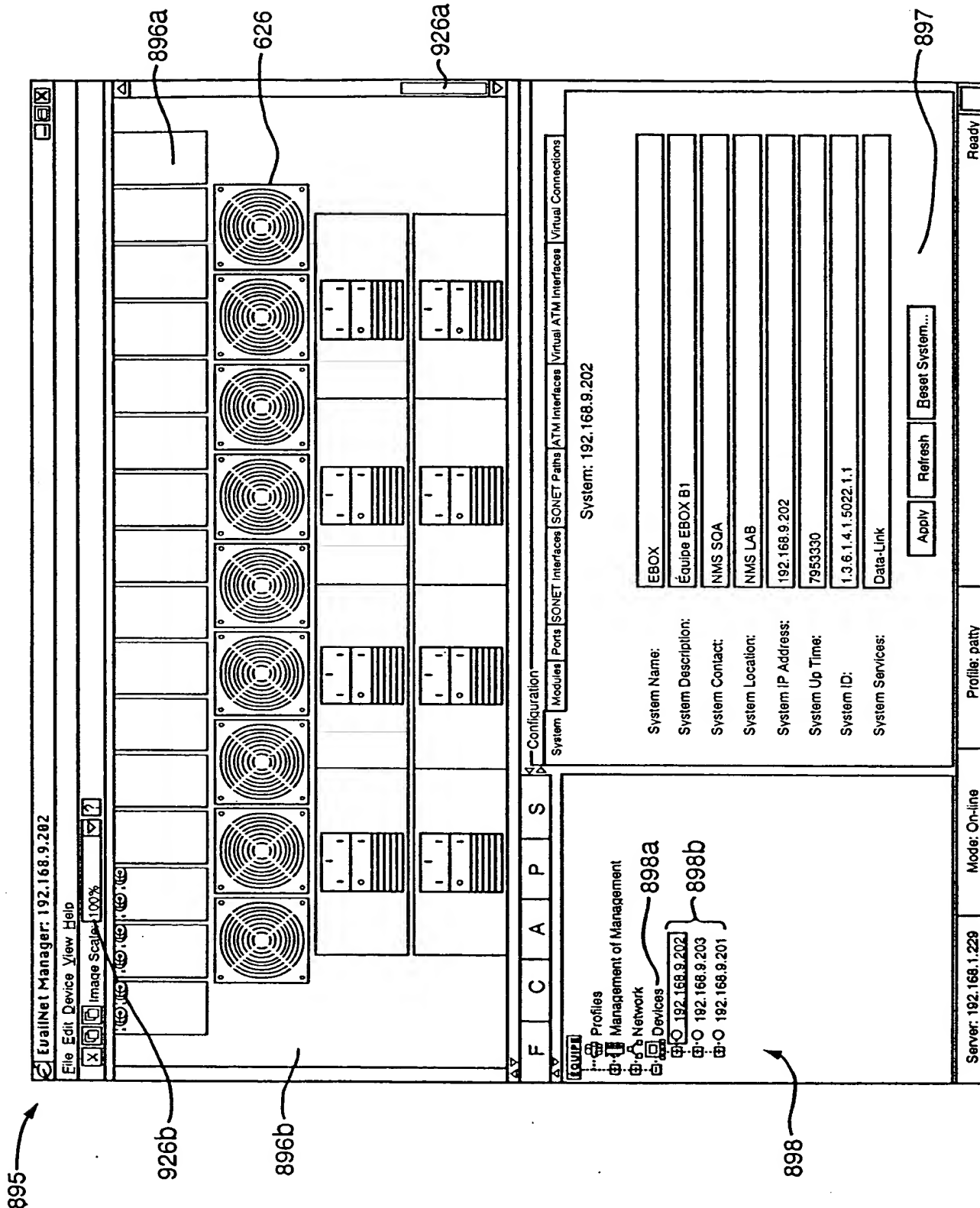


FIG. 4K

10/20/2003 10:55:26

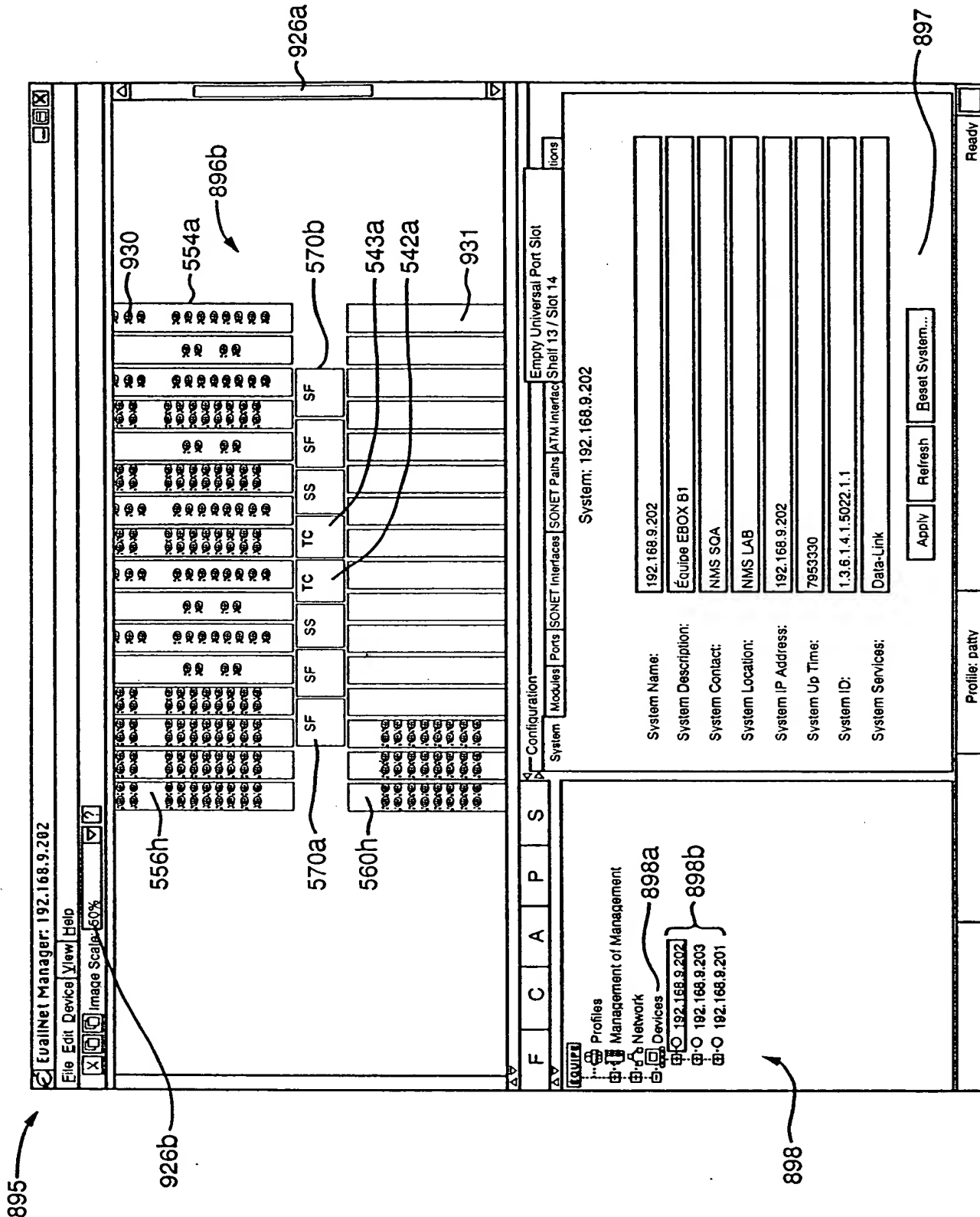


FIG. 4L

FIG. 4M





FIG. 4P



556d

897

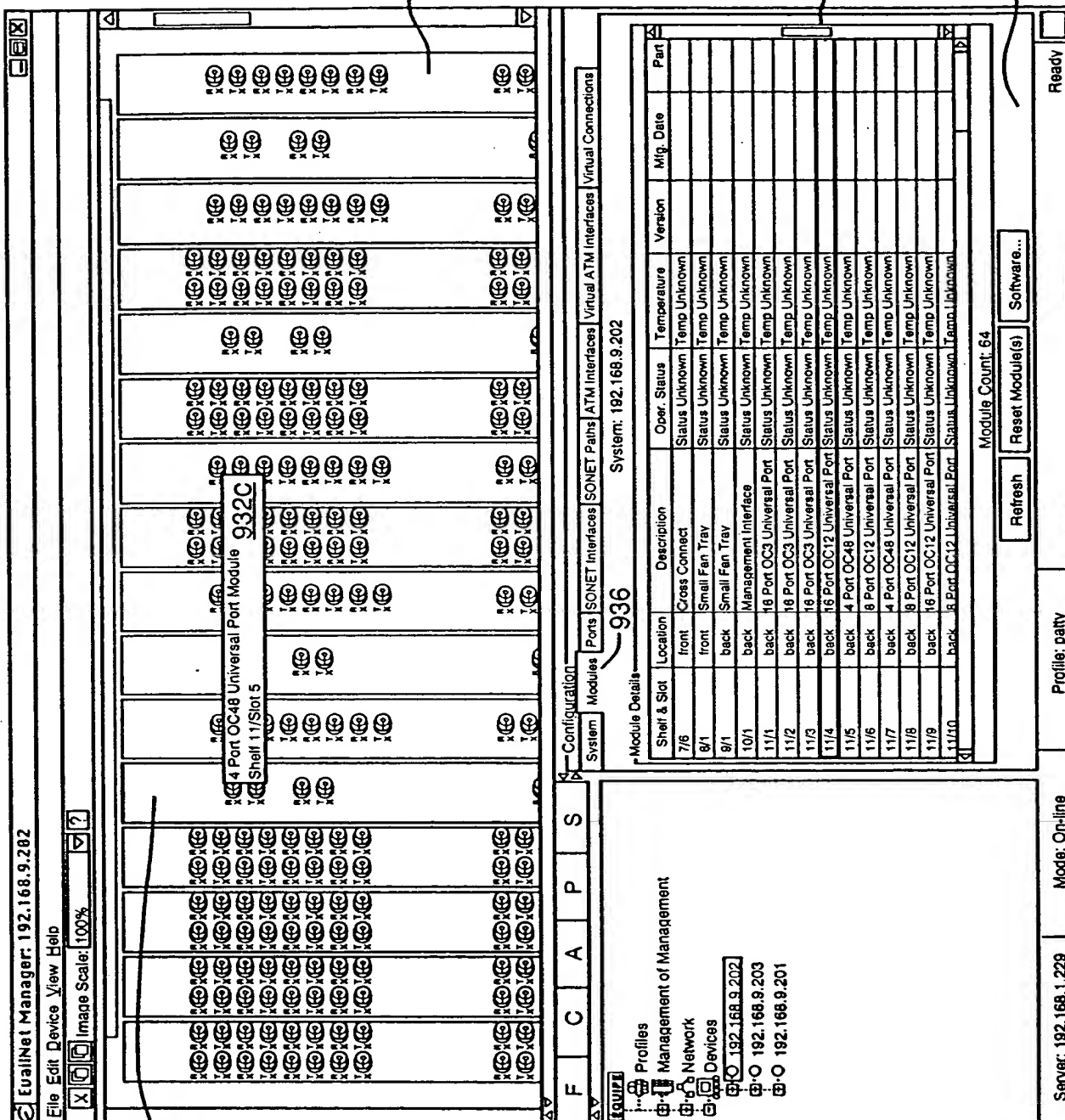
FIG. 4Q



FIG. 4R



FIG. 4S



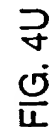


FIG. 4U

102689-67

895

556d

941a

896a

941b

897

EqualNet Manager: 192.168.9.202

File Edit Device View Help

Image Scale: 100%

Configuration

System Modules Ports S

SONET Interfaces ATM Interfaces Virtual ATM Interfaces Virtual Connections

System: 192.168.9.202

SONET Lines

Shelf / Slot...	Location	Medium Type...	Circuit ID	Line Type	Line Coding	Loopback...	Laser	Path Count
11/4/11	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/4/12	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/4/13	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/4/14	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/4/15	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/4/16	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/5/1	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/5/2	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/5/3	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/5/4	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/6/1	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/6/2	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/6/3	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0
11/6/4	back	SONET		Single Mode NRZ	NRZ	Terminal	Disabled	0

SONET Interface Count: 216

Paths... Refresh

Profile: patty

Mode: On-line

Server: 192.168.1.229

Ready

Equipment

Profiles

Management of Management

Network

Devices

192.168.9.202

192.168.9.203

192.168.9.201

FIG. 4V



FIG. 4W

102689-67

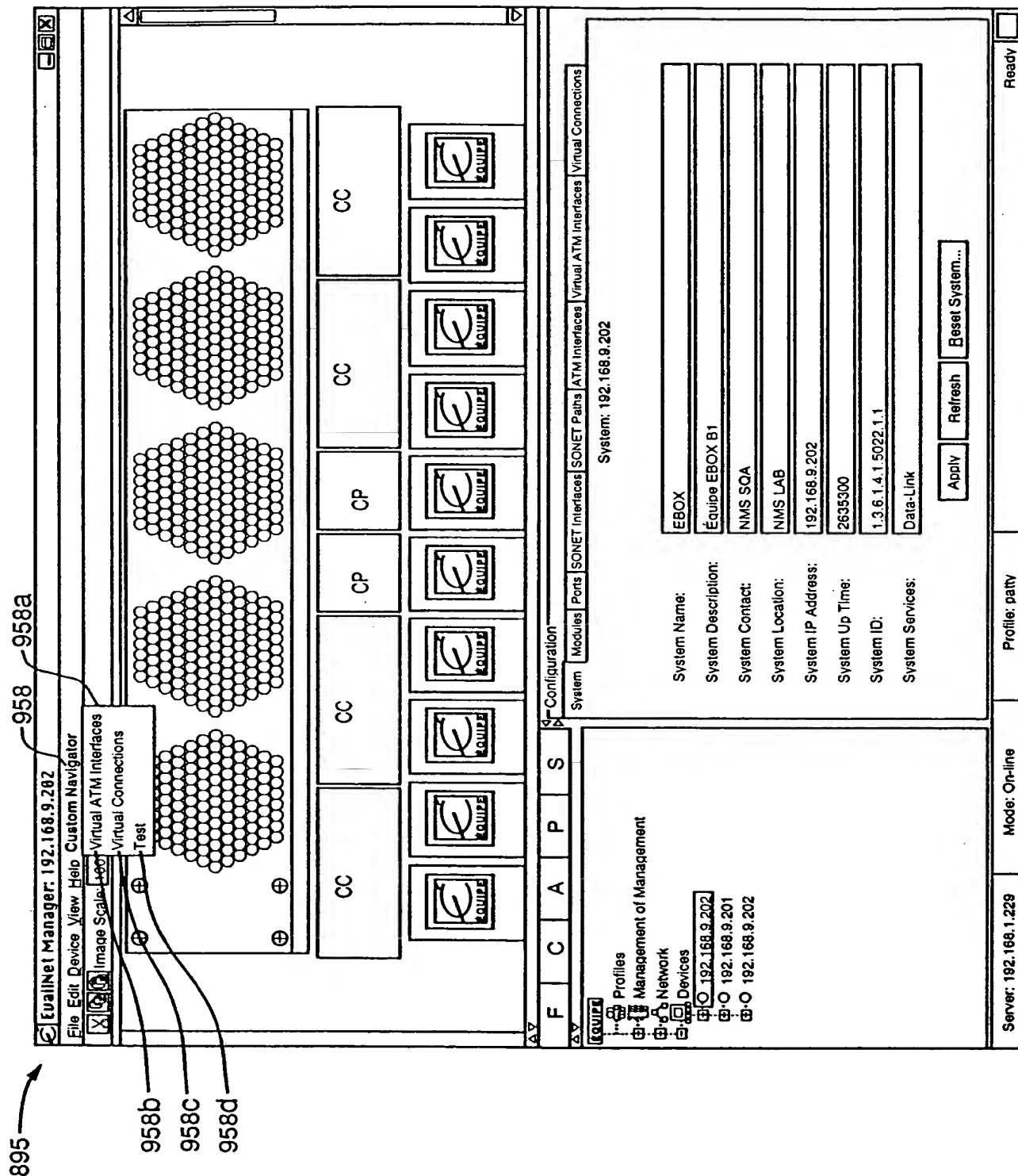


FIG. 4X

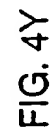


FIG. 4Y

EvaiNet Manager: SONET Path Configuration 11/5/1

System: 192.168.9.202

SONET Line

SlotPortType

SONET Path Wizard

Configure a single concatenated path (STS-48c)

4

STS-12c

paths

Configure

Custom Configuration

Next

Cancel

FIG. 4Z

102689-67

895

943

556e

939a

896a

939b

897

EvalNet Manager: 192.168.9.202

File Edit Device View Help

Image Scale: 100%

Port Properties

Port Reset

Configure SONET Paths...

Show ATM Interfaces

Show Virtual Interfaces

Add Virtual Connections...

Show Virtual Connections

Show ATM Statistics

Show SONET Statistics

896a

897

F C A P S

Configuration

System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections

938

System: 192.168.9.202

Port Details

Shelf / Slot / Port	Location	Name	Type	Speed	Admin. Status	Oper. Status	Link Status
11/4/1	back	Sonet Port 2	SONET	0 Mbps	Down	Unknown	Up
11/4/2	back	Sonet Port 2	SONET	0 Mbps	Down	Unknown	Up
11/4/3	back	Sonet Port 3	SONET	0 Mbps	Down	Unknown	Up
11/4/4	back	Sonet Port 4	SONET	0 Mbps	Down	Unknown	Up
11/4/5	back	Sonet Port 5	SONET	0 Mbps	Down	Unknown	Up
11/4/6	back	Sonet Port 6	SONET	0 Mbps	Down	Unknown	Up
11/4/7	back	Sonet Port 7	SONET	0 Mbps	Down	Unknown	Up
11/4/8	back	Sonet Port 8	SONET	0 Mbps	Down	Unknown	Up
11/4/9	back	Sonet Port 9	SONET	0 Mbps	Down	Unknown	Up
11/4/10	back	Sonet Port 10	SONET	0 Mbps	Down	Unknown	Up
11/4/11	back	Sonet Port 11	SONET	0 Mbps	Down	Unknown	Up
11/4/12	back	Sonet Port 12	SONET	0 Mbps	Down	Unknown	Up
11/4/13	back	Sonet Port 13	SONET	0 Mbps	Down	Unknown	Up
11/4/14	back	Sonet Port 14	SONET	0 Mbps	Down	Unknown	Up
11/4/15	back	Sonet Port 15	SONET	0 Mbps	Down	Unknown	Up

Port Count: 215

Disable... Refresh Reset...

Server: 192.168.1.229

Mode: On-line

Profile: patty

Ready

FIG. 5A

EvailNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 4 Port 1 Type OC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)

☐ Configure

☐ Custom Configuration

4

paths

OK

Cancel

FIG. 5B

EvailNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 4 Port 1 Type OC12

SONET Path Wizard

☒ Configure a single concatenated path (STS-12c)

☐ Configure

☐ Custom Configuration

4 STS-3c paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/4/1	Path1_11/4/1	1	STS-12c	Termin.	ATM		

Modify

Graphical Representation

Position Width

1 STS-12c

944b 944g 944p 944f 944e 944r 944q

FIG. 5C

EvailNet Manager: SONET Path Configuration - 11/4/1

X

SONET Line

System: 192.168.9.202

Slot 4

Port 1

Type OC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)
 ☒ **Configure**

☐ Custom Configuration

4

▽

STS-3c

paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/4/1	Path1_11/...	1	STS-3c	Termin.	ATM		
11/4/1	Path2_11/...	4	STS-3c	Termin.	ATM		
11/4/1	Path3_11/...	7	STS-3c	Termin.	ATM		
11/4/1	Path4_11/...	10	STS-3c	Termin.	ATM		

Modify

OK

Cancel

Graphical Representation

Position

Width

1

4

7

10

STS-3c

STS-3c

STS-3c

STS-3c

FIG. 5D

EvailNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot4Port1TypeOC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)

☒ Configure

☐ Custom Configuration

1

...

STS-12c

paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/4/1	Path1_11/...	1	STS-12c	Termin.	ATM		

Modify

Graphical Representation

Position

Width

1

STS-12c

944r

OK

Cancel

944p

Modify

944e

944f

FIG. 5E

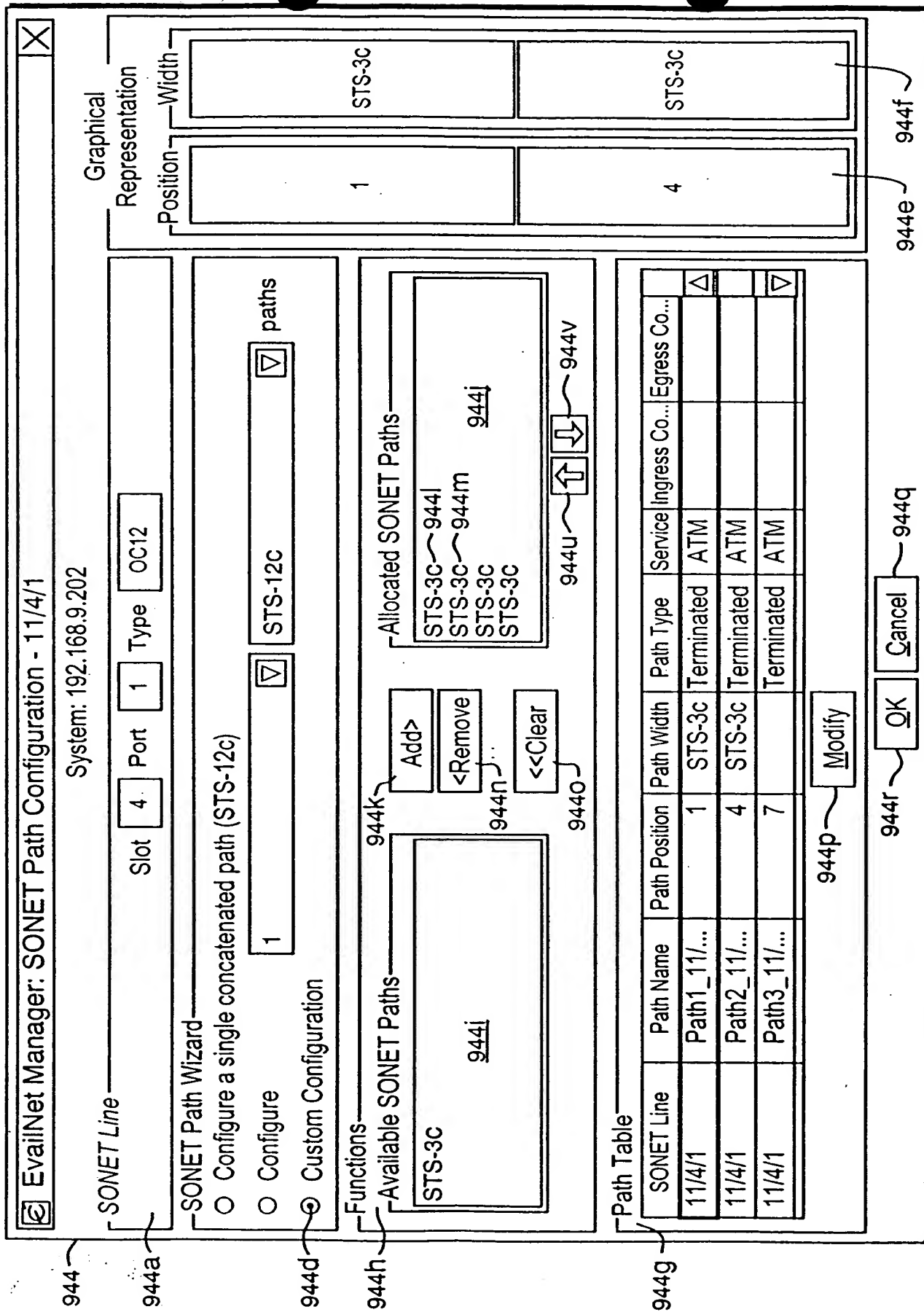


FIG. 5

EvaiNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 4 Port 1 Type OC12

Path Table

SONET Line	Path Name	Path Position	Path Width	Path Type	Service	Ingress Co...	Egress Co...
Shelf11/Sl...	Path1_11/...	1	3	2	1		
Shelf11/Sl...	Path2_11/...	4	3	2	1		

944p Modify Add Delete 945m

Graphical Representation

Position 1 4

Width STS-3C STS-3C

945e 945f

945

FIG. 5G



FIG. 5H

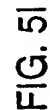


FIG. 51

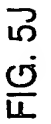


FIG. 5J

Figure 1 is a screenshot of a software window titled "EvalNet Manager: SONEt Path Configuration - 11/5/2". The window contains a "System:" label followed by the IP address "192.168.9.202". Below this, there are two main sections. The first section, labeled "SONET Line", contains three input fields: "Slot" with the value "5", "Port" with the value "2", and "Type" with the value "OC48". The second section, labeled "SONET Path Wizard", contains three radio buttons. The first radio button, labeled "Configure a single concatenated path (STS-48c)", is selected. The second radio button, labeled "Configure", is disabled. The third radio button, labeled "Custom Configuration", is also disabled. Below the "Configure" radio button, there is a disabled button labeled "Configure" with a dropdown menu showing the value "4" and the text "paths". At the bottom right of the window, there are two buttons: "Ok" and "Cancel". The "Cancel" button is disabled. The window is labeled with reference numerals: 944a points to the title bar, 944b points to the "SONET Line" section, 944c points to the "SONET Path Wizard" section, 944d points to the "Configure" radio button, and 944 points to the "Ok" button.

FIG. 5K

TD280-9E695260

EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot

5

Port

2

Type

OC48

SONET Path Wizard

☒ Configure a single concatenated path (STS-48c)
 ☐ Configure
 ☐ Custom Configuration

4

▼

STS-12C

▼

paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/5/2	Path1_11/5/2	1	STS-48c	Termin.	ATM		

Modify

Graphical Representation

Position

1

Width

STS-48C

944r

OK

Cancel

944q

FIG. 5L

TD280" 9E69S260

EvailNet Manager: SONET Path Configuration - 11/5/2

X

System: 192.168.9.202

SONET Line

Slot

5

Port

2

Type

OC48

SONET Path Wizard

Configure

4

paths

Configure a single concatenated path (STS-48c)

STS-12c

944t

Custom Configuration

944s

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/5/2	Path1_11/...	1	STS-12c	Termin.	ATM		
11/5/2	Path2_11/...	13	STS-12c	Termin.	ATM		
11/5/2	Path3_11/...	25	STS-12c	Termin.	ATM		
11/5/2	Path4_11/...	37	STS-12c	Termin.	ATM		

Modify

OK

Cancel

Graphical Representation

Position

1

13

25

37

Width

STS-12c

STS-12c

STS-12c

STS-12c

944e

944f

FIG. 5M

EvaiNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot

5

Port

2

Type

OC48

SONET Path Wizard

Configure a single concatenated path (STS-48c)

Configure

Custom Configuration

1

1

4

16

STS-48c

paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/5/2	Path1_11/...	1	STS-48c	Termin.	ATM		

Modify

Graphical Representation

Position

Width

1

STS-48c

944r

OK

Cancel

FIG. 5N

FO2280* 9E695460

EvailNet Manager: SONET Path Configuration - 11/5/2

X

System: 192.168.9.202

SONET Line

Slot

5

Port

2

Type

OC48

SONET Path Wizard

☐ Configure a single concatenated path (STS-48c)

☒

Configure

☐ Custom Configuration

16

STS-3C

paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/5/2	Path1_11/5/2	1	STS-3c	Termin.	ATM		Δ
11/5/2	Path2_11/5/2	4	STS-3c	Termin.	ATM		
11/5/2	Path3_11/5/2	7	STS-3c	Termin.	ATM		
11/5/2	Path4_11/5/2	10	STS-3c	Termin.	ATM		
11/5/2	Path5_11/5/2	13	STS-3c	Termin.	ATM		
11/5/2	Path6_11/5/2	16	STS-3c	Termin.	ATM		
11/5/2	Path7_11/5/2	19	STS-3c	Termin.	ATM		▽

Modify

OK

Cancel

Graphical Representation

Position

Width

1	STS-3C
4	STS-3C
7	STS-3C
10	STS-3C
13	STS-3C
16	STS-3C
19	STS-3C
22	STS-3C
25	STS-3C
28	STS-3C
31	STS-3C
34	STS-3C
37	STS-3C
40	STS-3C
43	STS-3C
45	STS-3C

FIG. 50

944 EvalNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

944a SONET Line Slot 5 Port 2 Type OC48

944b SONET Path Wizard

944c ☐ Configure a single concatenated path (STS-12c)

944d ☐ Configure ☐ Custom Configuration

944h Functions

Available SONET Paths 944k

944i STS-3C STS-12C

944n <Remove

944o <<Clear

Allocated SONET Paths 944j

944p Modify

944g Path Table

SONET Line	Path Name	Path Position	Path Width	Path Type	Service	Ingress Co...	Egress Co...
11/5/2	Path1_11/...	1	STS-3c	Terminated	ATM		
11/5/2	Path2_11/...	4	STS-3c	Terminated	ATM		
11/5/2	Path3_11/...	7		Terminated	ATM		

944r OK 944s Cancel 944t

Graphical Representation

Position Width

1 4 7 10 22 34

STS-3C STS-3C STS-3 STS-3 STS-12C STS-12C

944e 944f

FIG. 5P

10/280 926951/60

895

951-951b-951a-951c

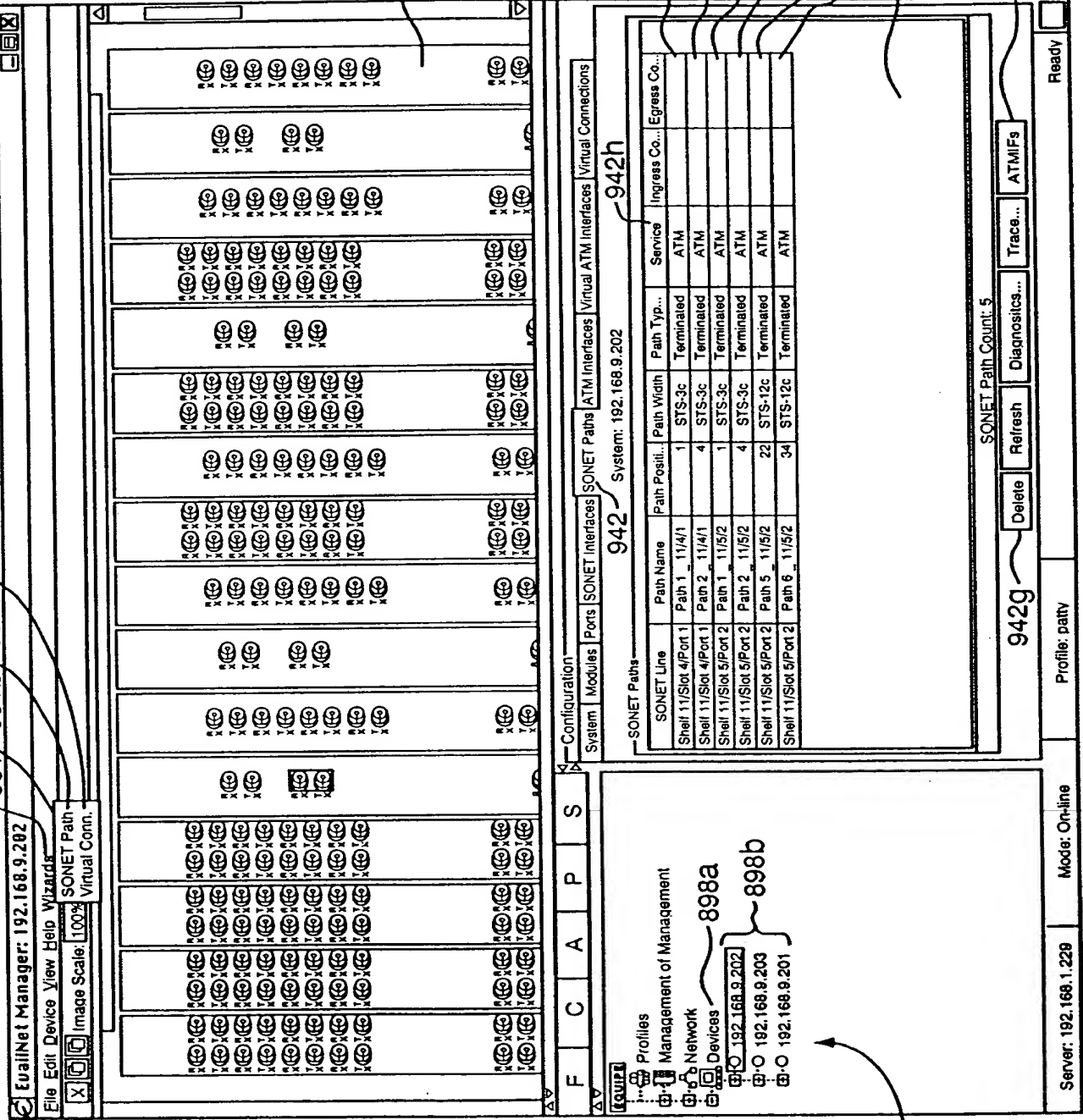
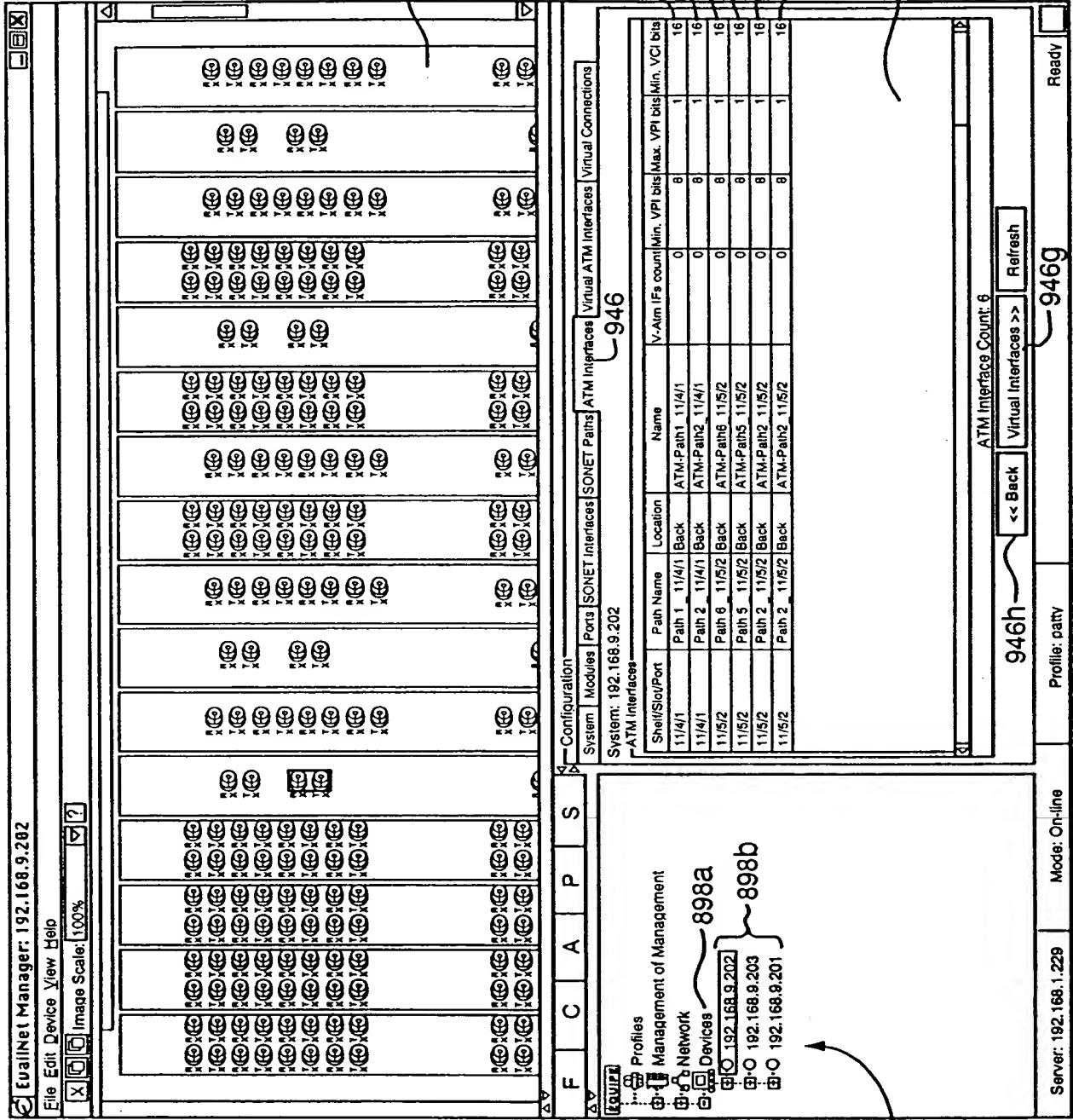


FIG. 5Q

102689-67

895



898

FIG. 5R

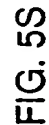


FIG. 55

102280" 96695/60

950

Add U-ATM Interface - 192.168.9.202

Shelf/Slot/Port: 11/4/1 Path Name: Path2_11/4/1

Virtual ATM Interface Parameters

950d Name	test1
950a Connection Type	Direct Link
950b Version	UNI Network 3.1
950c Admin Status	Up

950e

OK Cancel

FIG. 5T



FIG. 5U

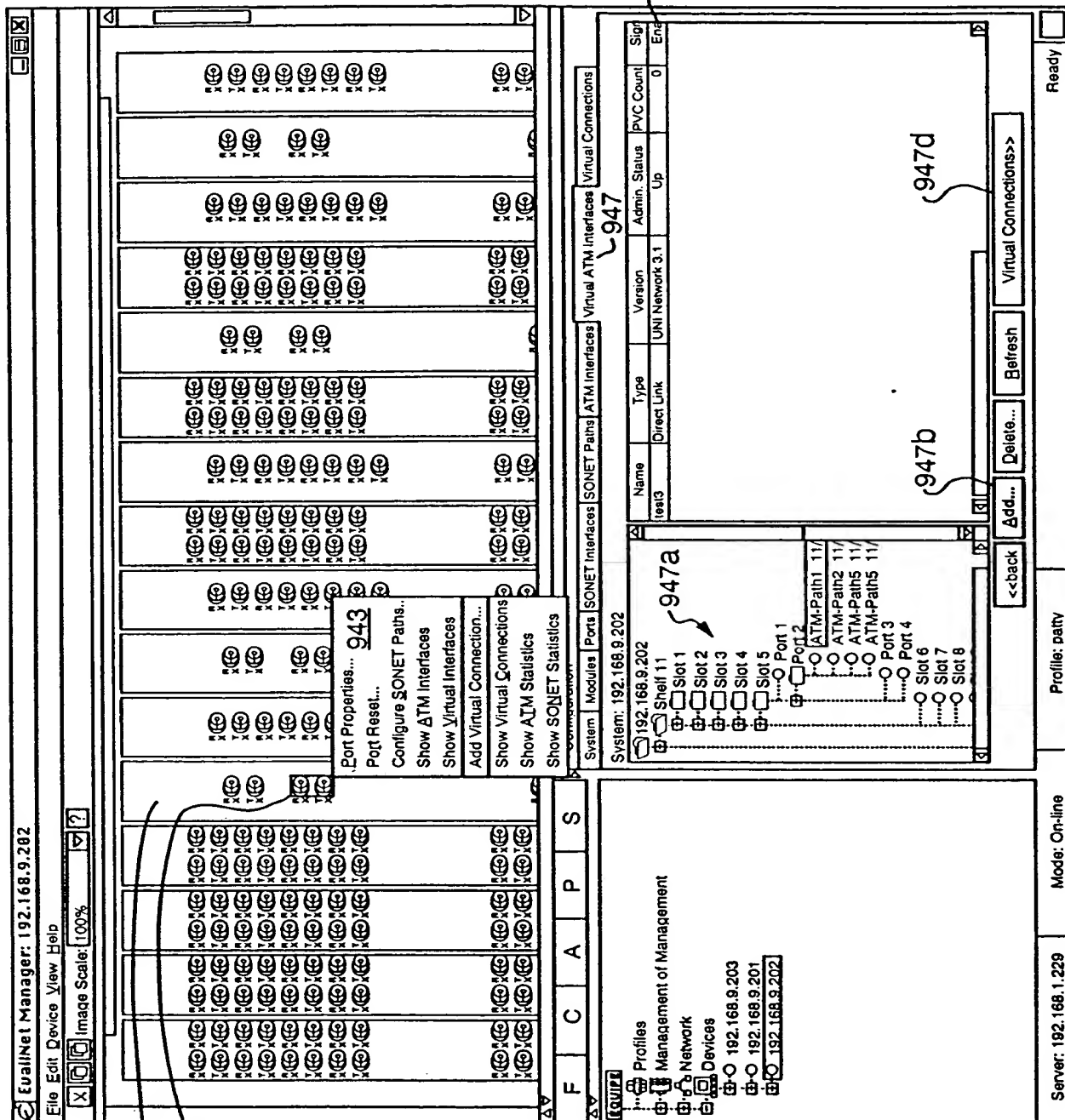


FIG. 5V

952

EvailNet Manager: 192.168.9.202 - Virtual Connection Wizard

Connection Topology—

What type of connection do you want?

☒ Point to Point ☐ Point to Multipoint

952a

Connection Type—

Do you want to create a Virtual Path or a Virtual Channel?

☒ Virtual Path Connection (VPC) ☐ Virtual Channel Connection (VCC)

☐ Soft (SPVPC/SPVCC)

952b

providing
the optical
on-ramp™

Welcome to
EQUIPE Communications

Next>> Cancel

FIG. 5W

953

EvailNet Manager: 192.168.9.202-Virtual Connection Wizard

Source: 192.168.9.202 Destination: 192.168.9.202

953a End Point 1

Slot 4
Port 1
ATM-Path1_11/4/1
ATM-Path2_11/4/1
test1
test2
Port 2
Port 3
Port 4

953b

953c End Point 1

Slot 3
Slot 4
Slot 5
Port 1
Port 2
ATM-Path1_11/5/2
test3
ATM-Path2_11/5/2
ATM-Path5_11/5/2

953d

953e Connection Parameters

Connection Name: test

Admin Status: Up 953h

Customer Name: Walmart Customer List

953f End Point 1 Parameters:

VPI: 953i ☒ Use Any VPI Value 953k

VCI: 953m ☐ Use Any VCI Value 953o

Transmit Traffic Descriptor: VBR-high Add Traffic Descriptor...

Receive Traffic Descriptor: VBR-high 953q

953s ☐ Use the same Traffic Descriptor for both Transmit and Receive

953g End Point 2 Parameters:

VPI: 953j ☒ Use Any VPI Value 953l

VCI: 953n ☐ Use Any VCI Value 953p

Transmit Traffic Descriptor: VBR-high Add Traffic Descriptors...

Receive Traffic Descriptor: VBR-high 953r

953t ☐ Use the same Traffic Descriptor for both Transmit and Receive 953u 953w 953v

<<Back Finish Cancel

FIG. 5X

956

NEW TRAFFIC
DESCRIPTOR

NAME:

QoS CLASS:

TYPE:

FIG. 5Y

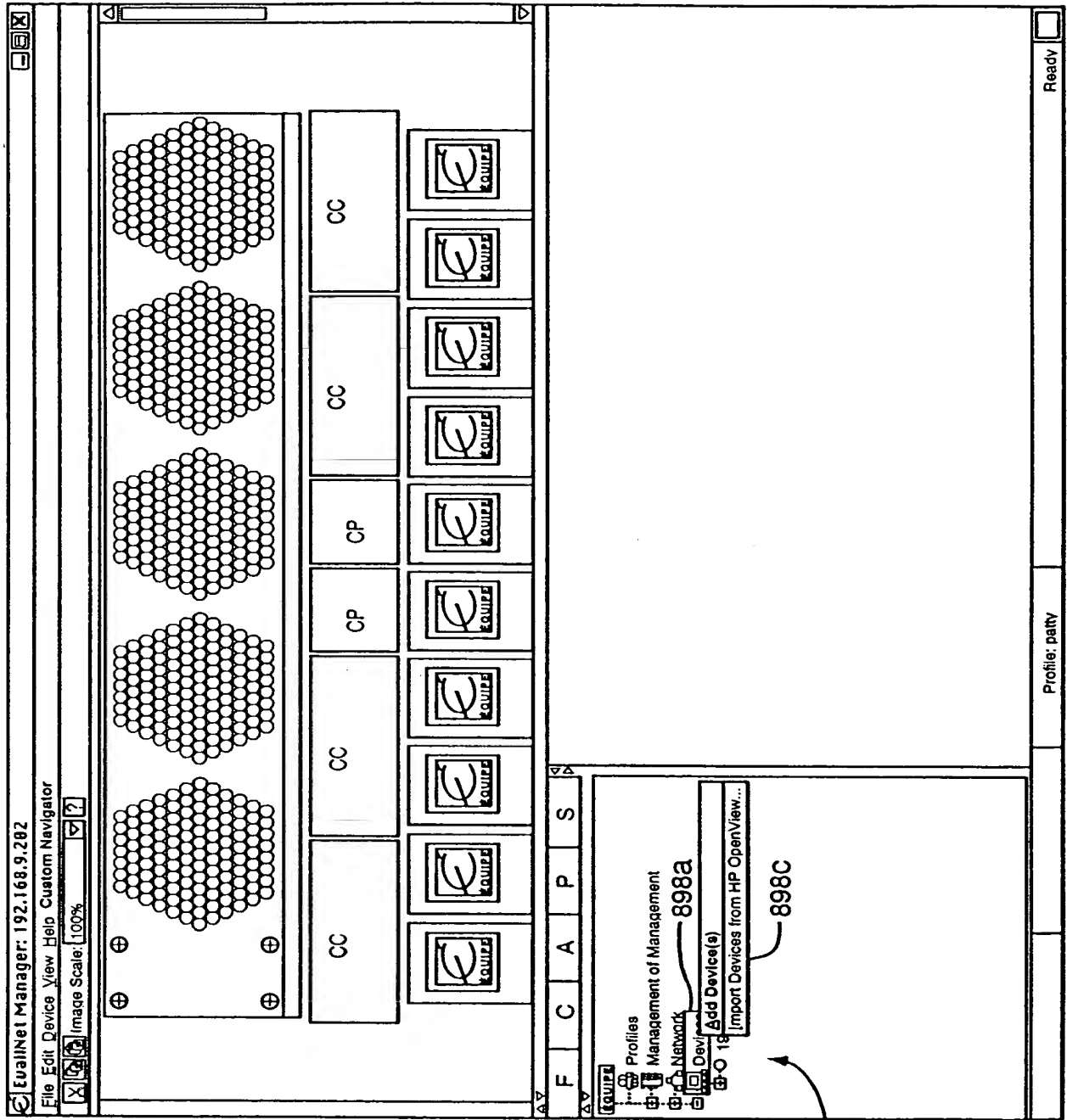
102689-67



FIG. 5Z

102220* 92695260

895



898

FIG. 6A

AddDeleteDeviceDlg

Enter device to add

192.168.9.201

☒ Manage device in on-line mode

Add

Device List

On-Line Device

OK Cancel Delete

898e

898k

898l

898f

898d

898g

FIG. 6B

AddDeleteDeviceDlg

Enter device to add

☐ Manage device in on-line mode

Add

Device List

On-Line Device

☐ 192.168.9.201

OK Cancel Delete

898d

898g

898m

FIG. 6C

09756936-082704

10/22/00 9:55:25

895

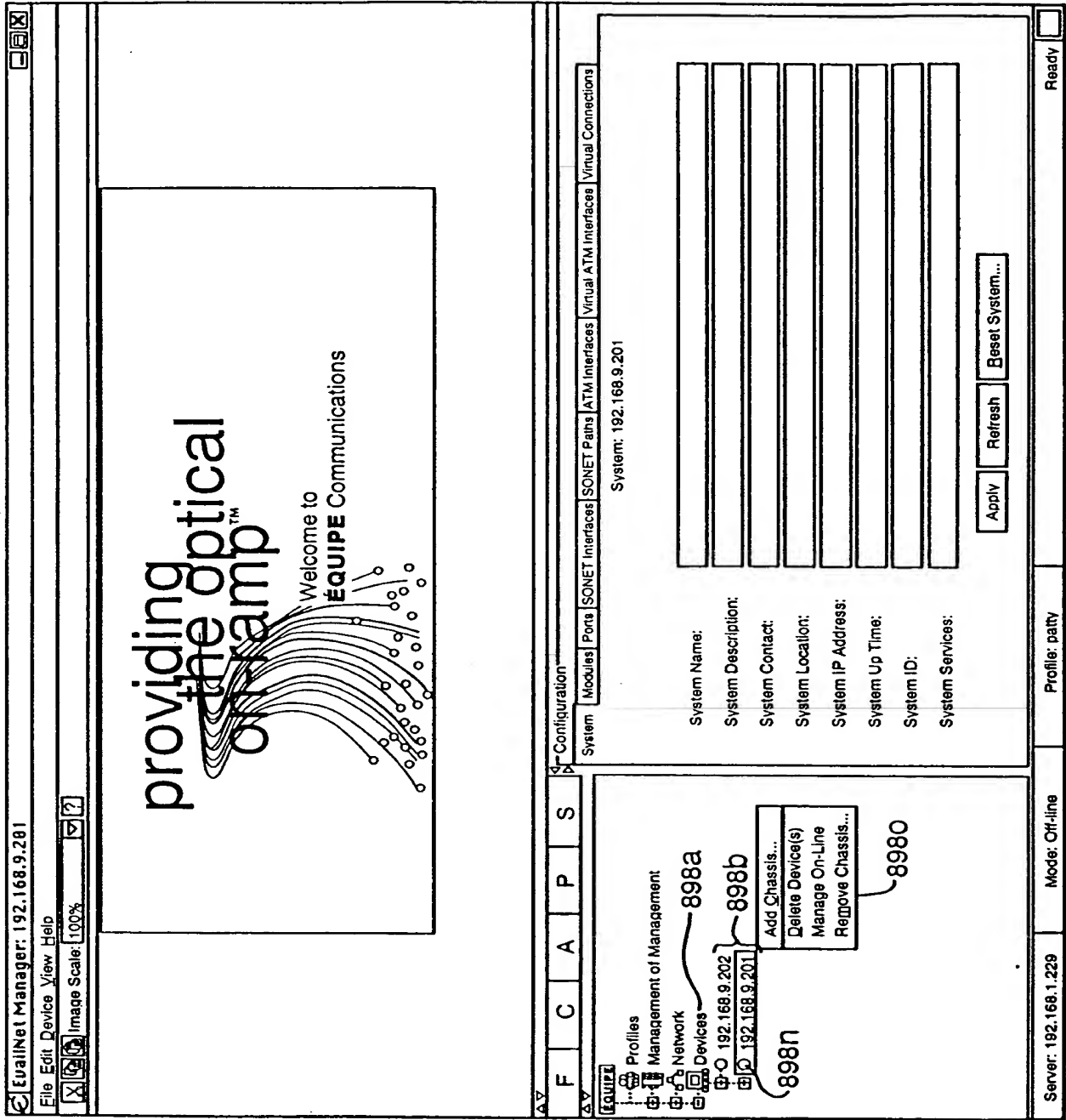
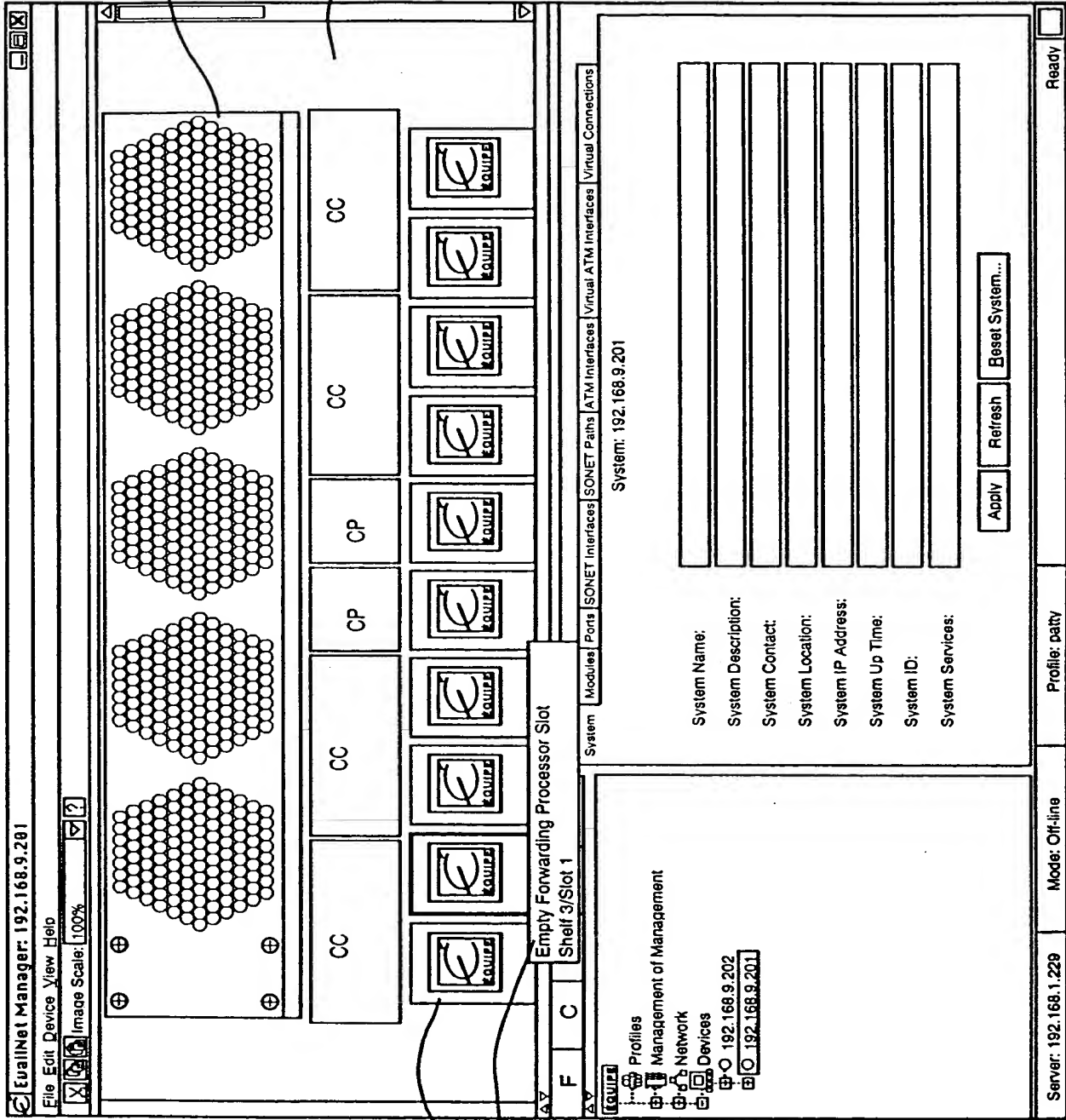


FIG. 6D

102689-67

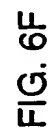
895



896c

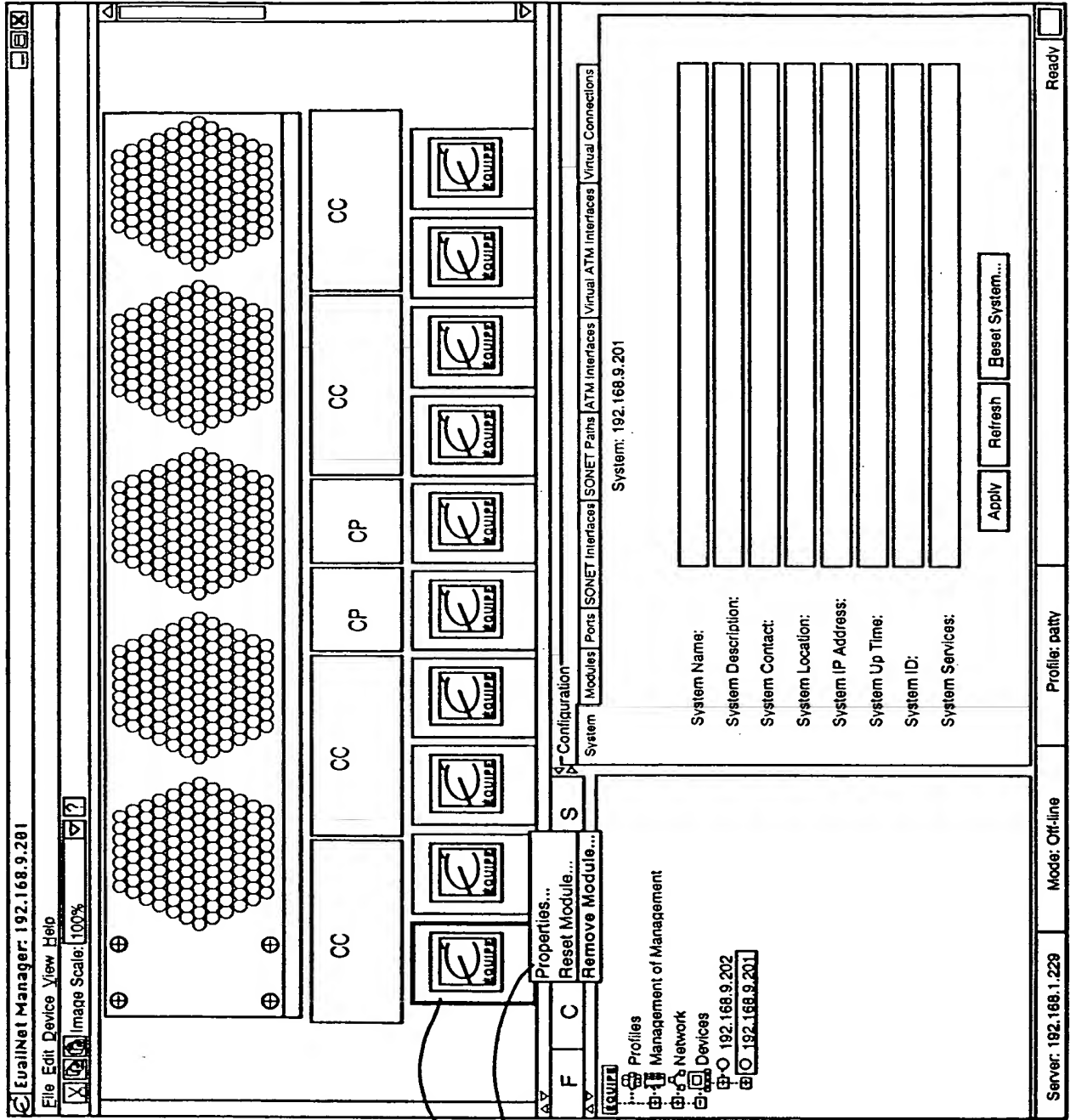
896d

FIG. 6E



702280" 9E695/650

895



546a

896t

FIG. 6G

102689-67

895

896f

896g

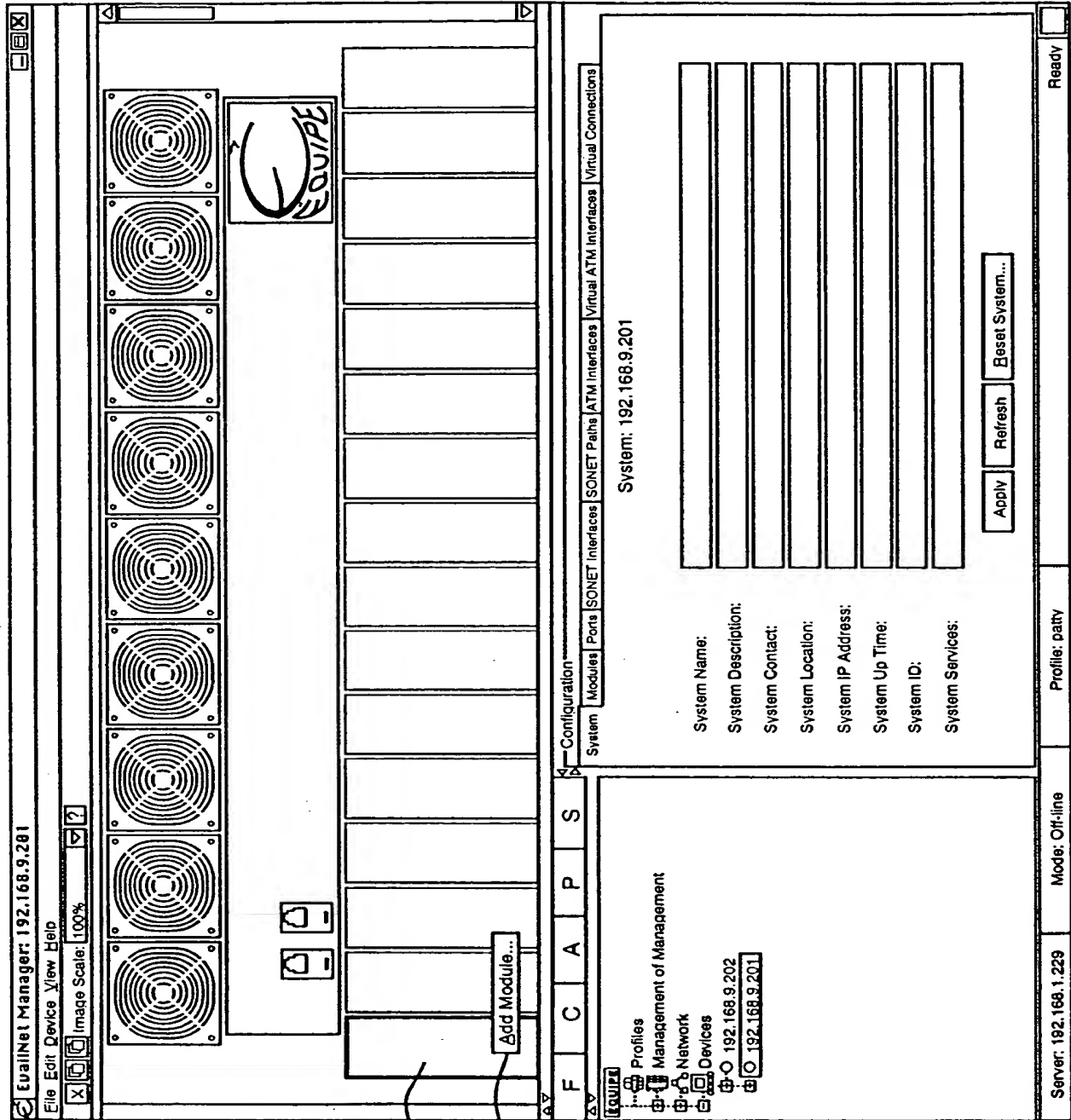


FIG. 6I

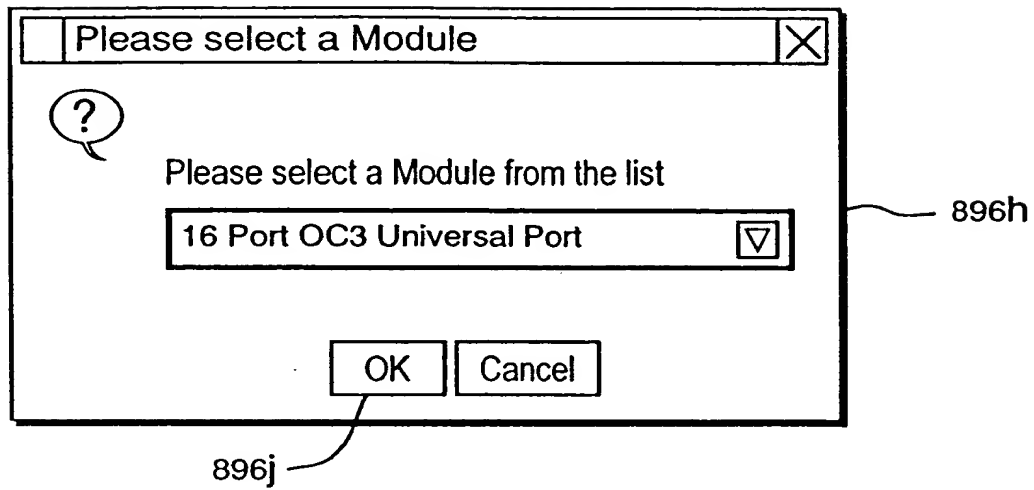


FIG. 6J

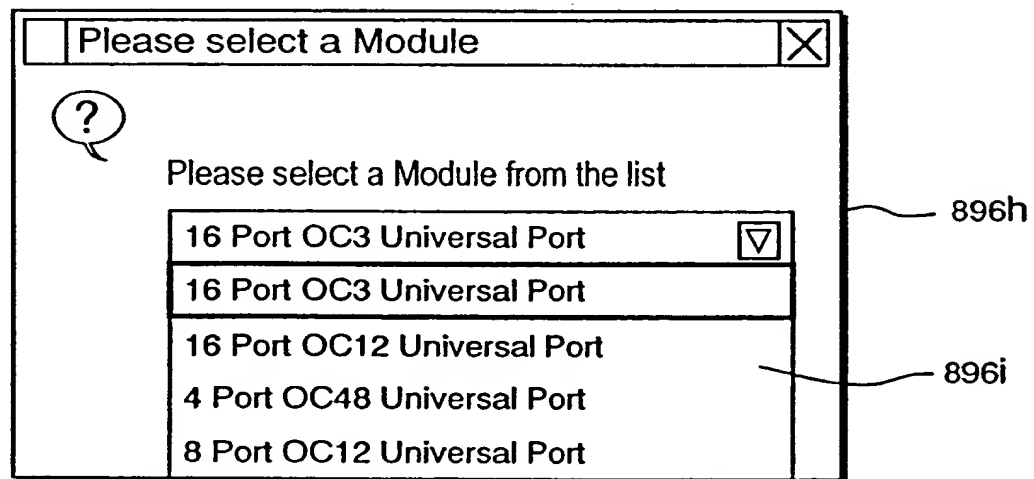


FIG. 6K

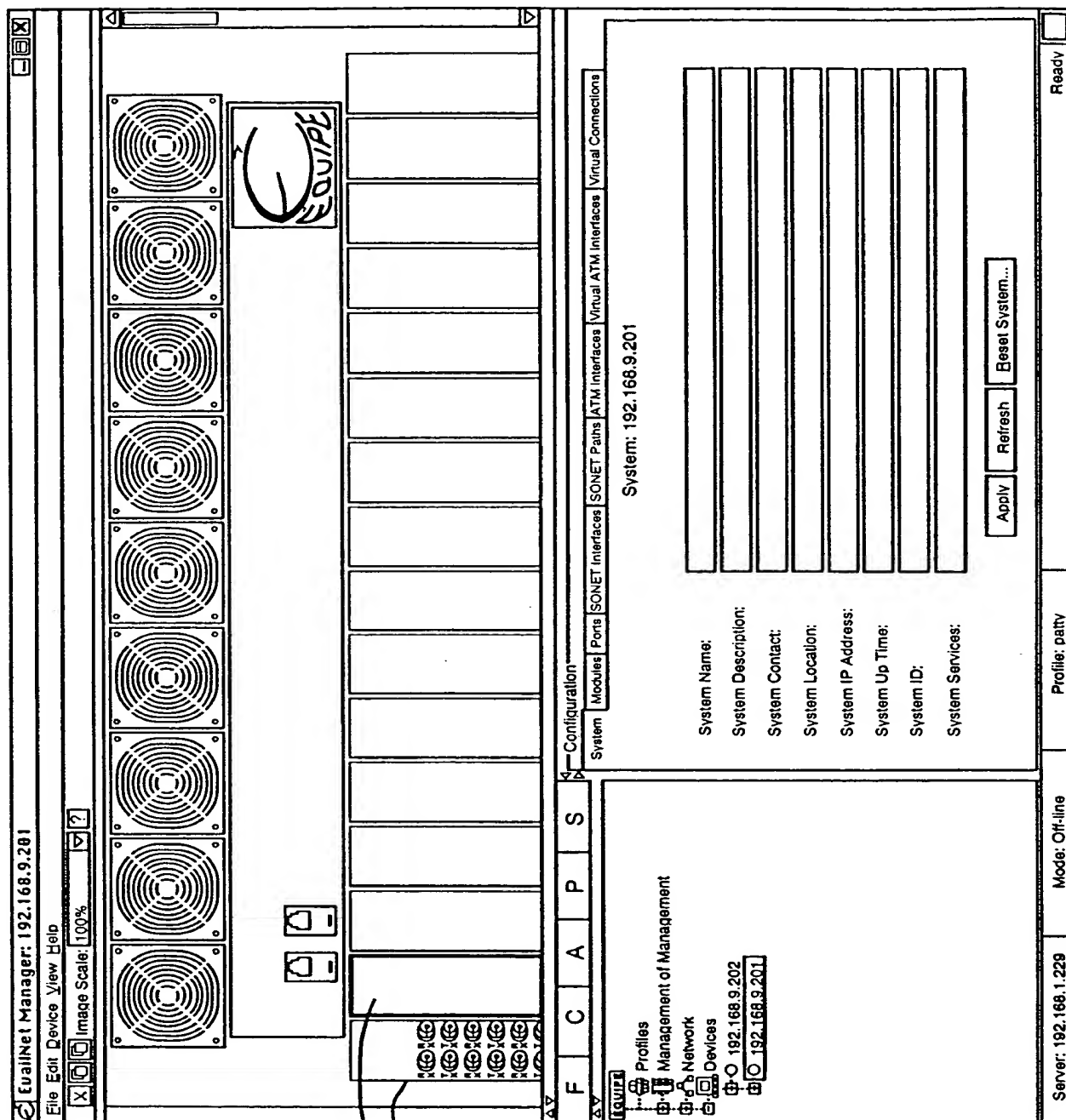


FIG. 6L

10/28/99 9:56:56 AM

895

556g

556h

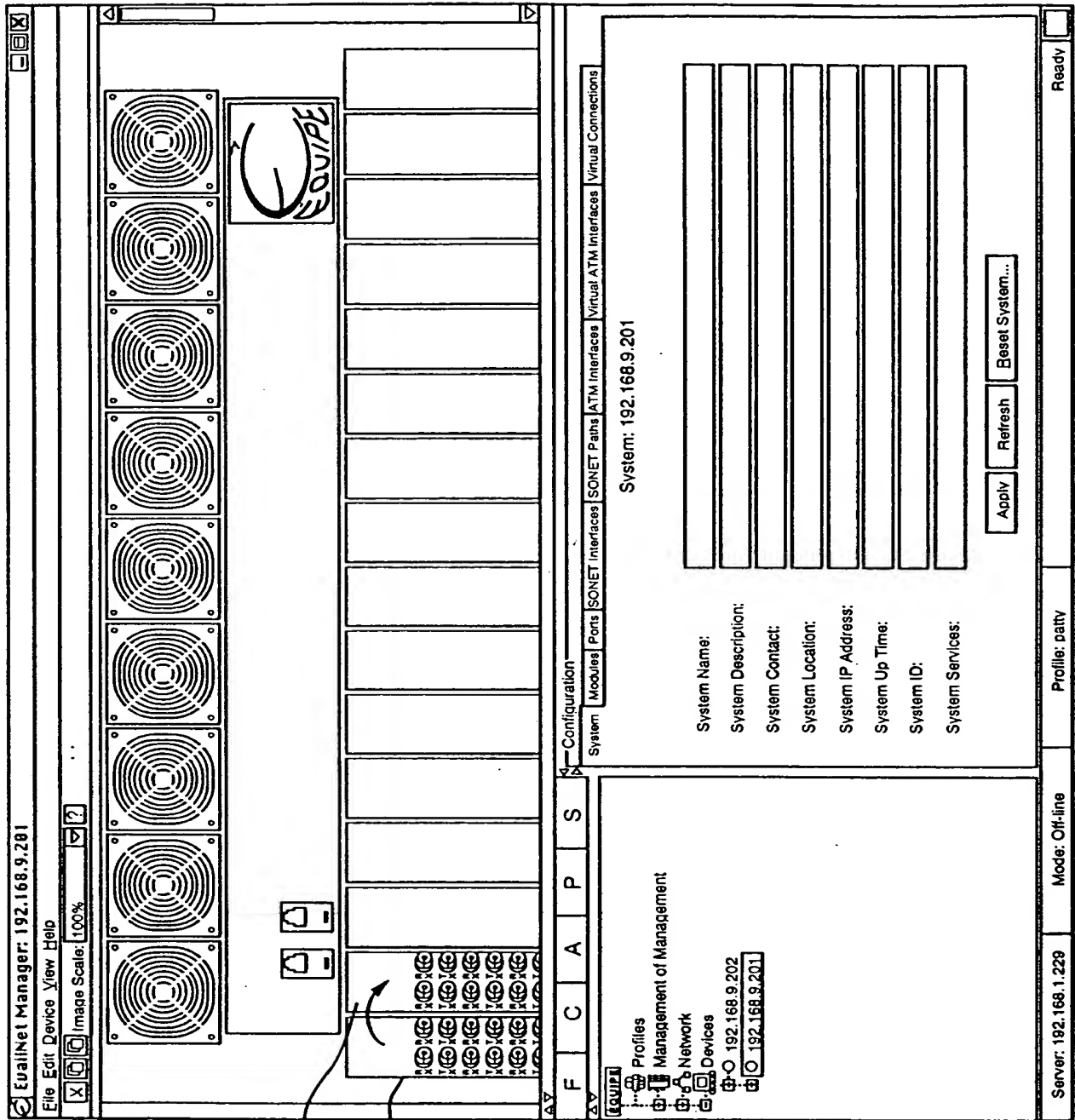


FIG. 6M

102689-67

895

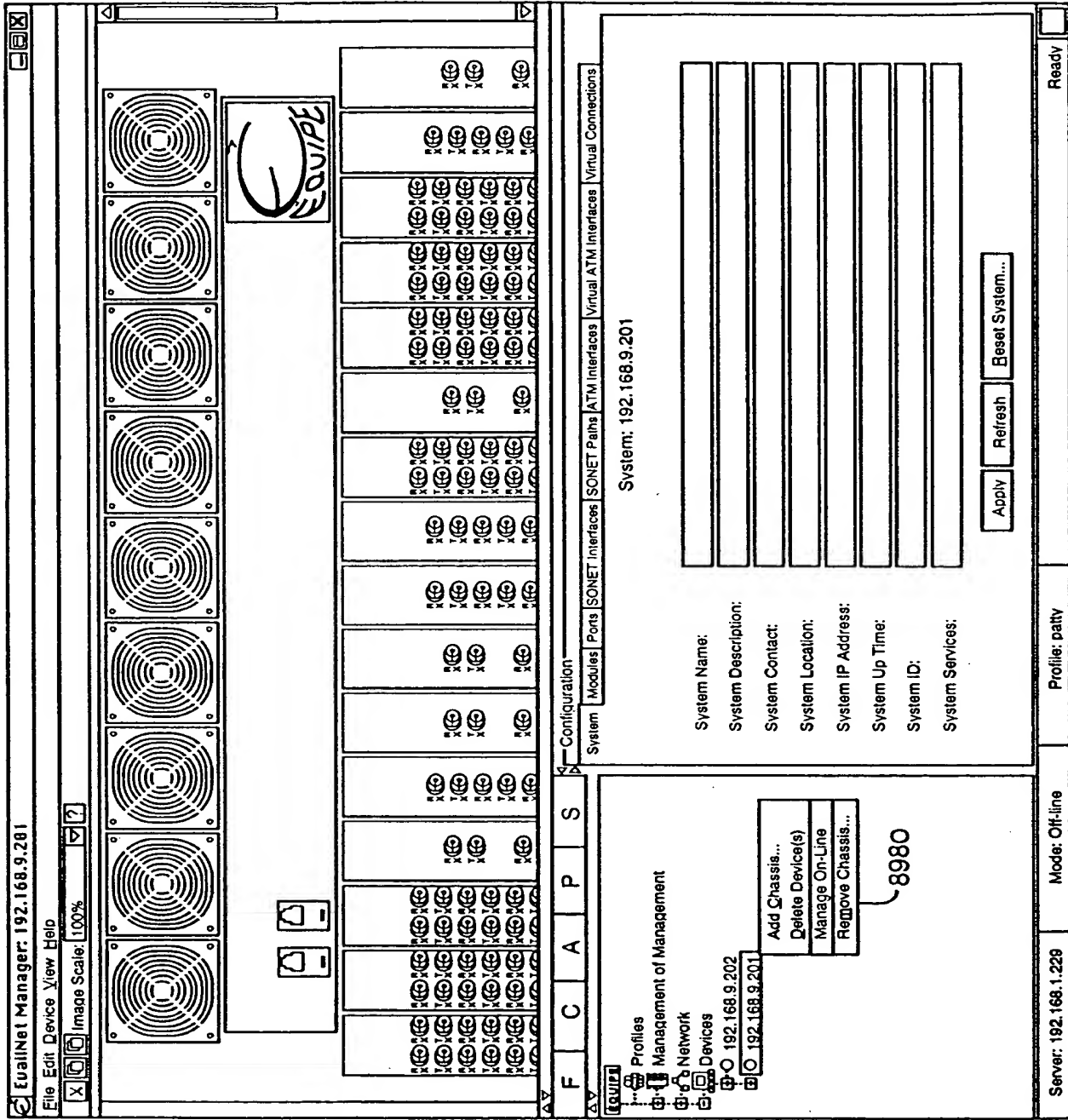


FIG. 6N

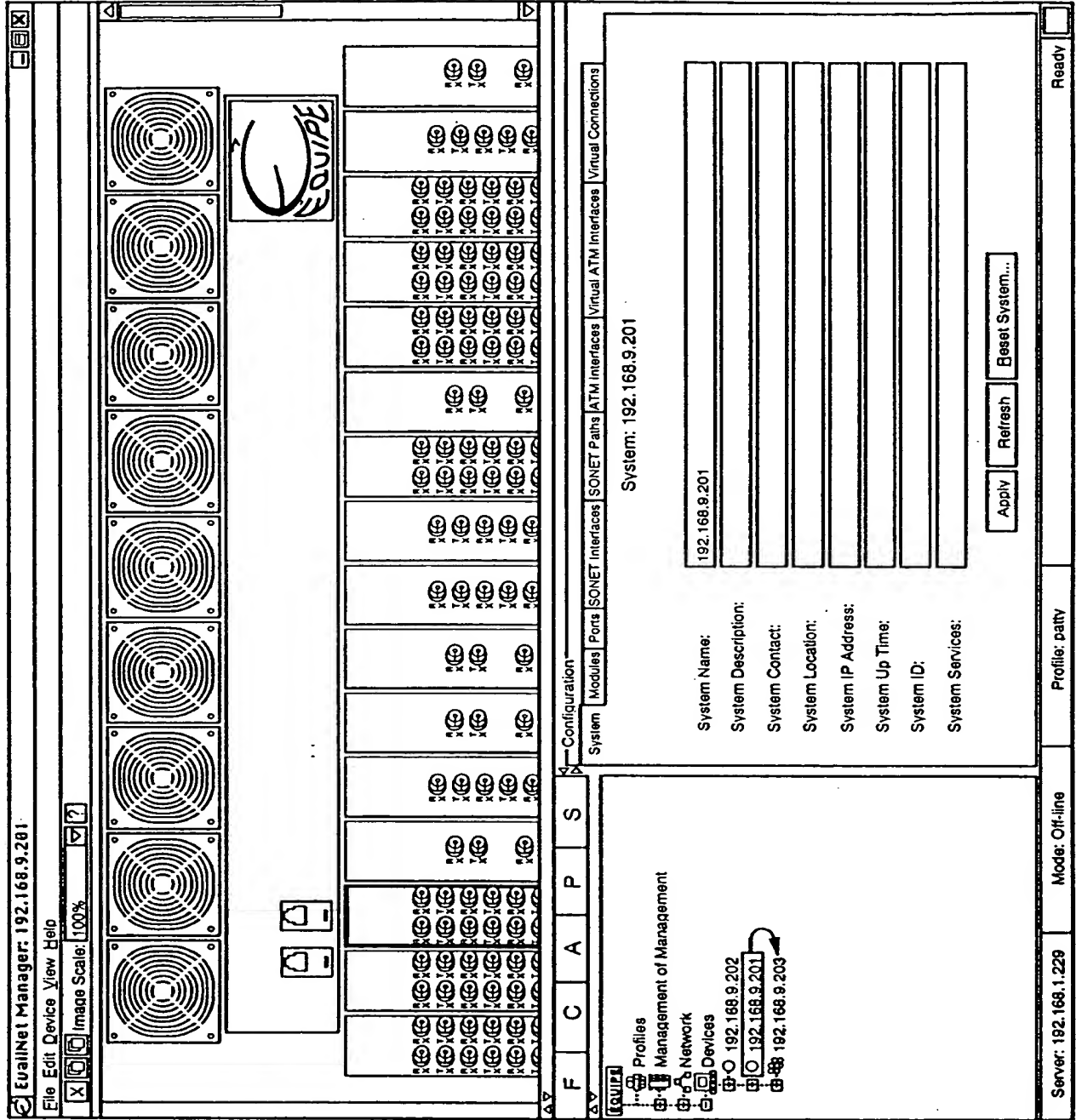


FIG. 60

102280" 9E695/60

895

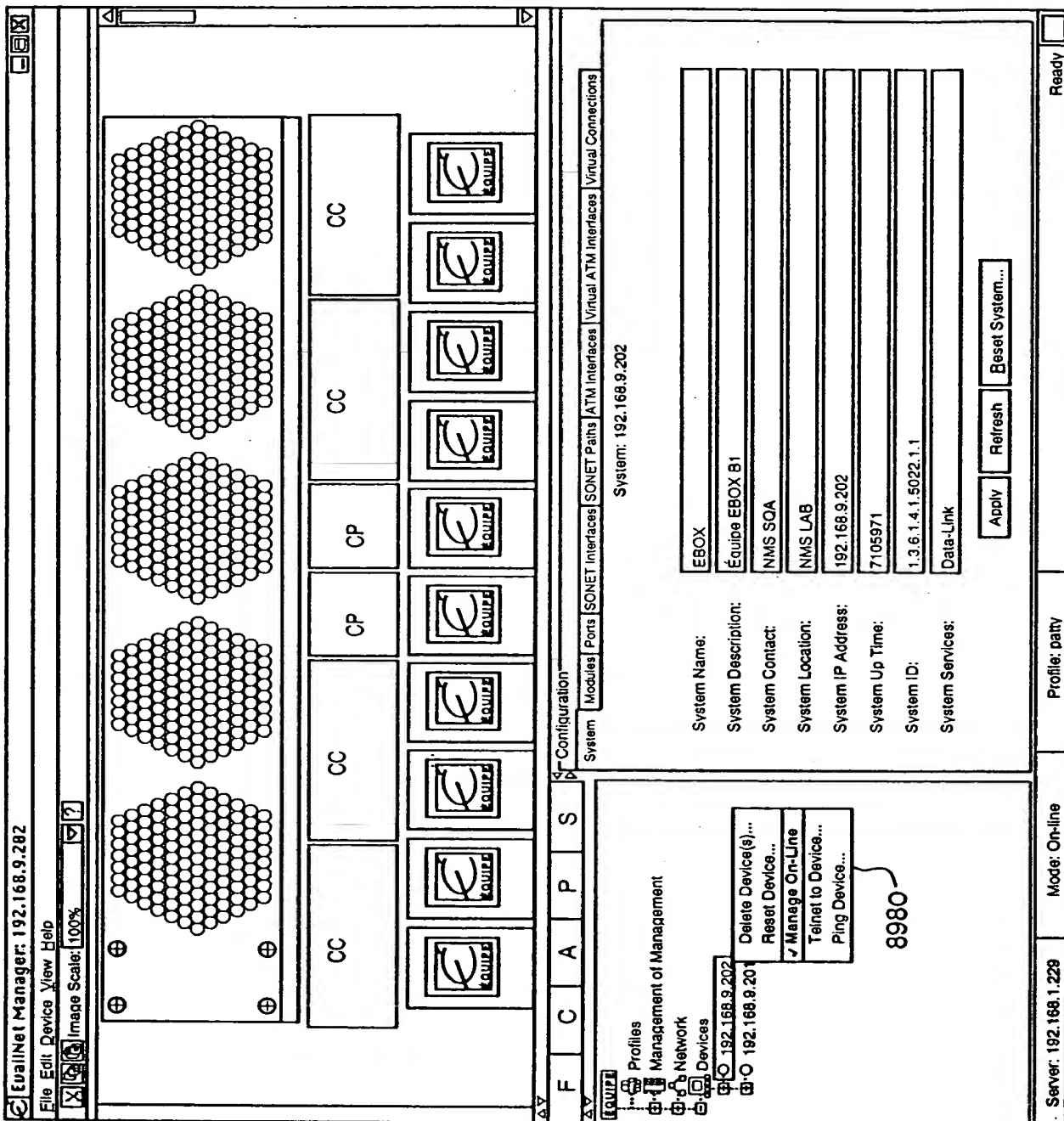


FIG. 6P

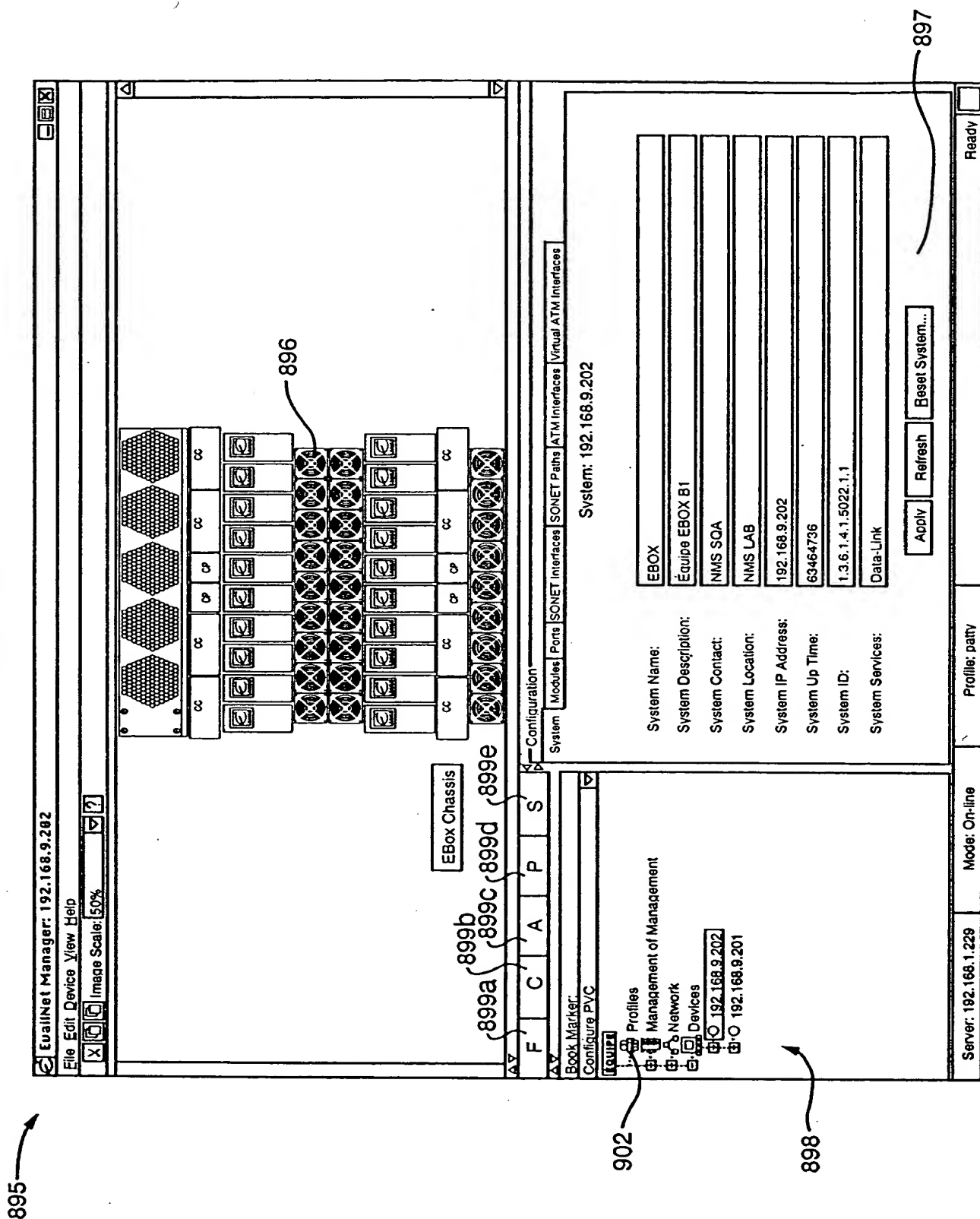


FIG. 7A

102689-67 09756936-082701

900

EvailNet Manager: Fault - Event Summary

System: 192.132.65.150

System	Event	Event Number	Description
1.1.55.6	Fan OverTemp	44	"Fan marginally functioning"
1.1.55.7	New Board Ins...	75	"New board inserted"

OK

FIG. 7B

102689-67

EuallNet Manager: 192.168.9.202 File Edit Device View Help Image Scale: 50%																								
<table border="1"> <tr> <td colspan="2"> Security SHMP Configuration Changes System: 192.168.9.202 SHMP Community Strings READ Community: public READ/WRITE Community: public </td> <td colspan="2"> Command Line Interpreter (CLI) Administrator Password: root </td> </tr> </table>					Security SHMP Configuration Changes System: 192.168.9.202 SHMP Community Strings READ Community: public READ/WRITE Community: public		Command Line Interpreter (CLI) Administrator Password: root																	
Security SHMP Configuration Changes System: 192.168.9.202 SHMP Community Strings READ Community: public READ/WRITE Community: public		Command Line Interpreter (CLI) Administrator Password: root																						
<table border="1"> <tr> <td>899a</td> <td>899b</td> <td>899c</td> <td>899d</td> <td>899e</td> </tr> <tr> <td>F</td> <td>C</td> <td>A</td> <td>P</td> <td>S</td> </tr> </table>					899a	899b	899c	899d	899e	F	C	A	P	S										
899a	899b	899c	899d	899e																				
F	C	A	P	S																				
<table border="1"> <tr> <td>Book Marks</td> <td colspan="4"></td> </tr> <tr> <td>Configure PVC</td> <td colspan="4"></td> </tr> <tr> <td>Profiles</td> <td colspan="4"></td> </tr> <tr> <td>Management of Management</td> <td colspan="4"></td> </tr> </table>					Book Marks					Configure PVC					Profiles					Management of Management				
Book Marks																								
Configure PVC																								
Profiles																								
Management of Management																								
Server: 192.168.9.202		Mode: On-line		Profile:																				
				Ready																				

FIG. 7C

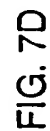


FIG. 7D

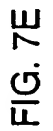


FIG. 7E

00000000000000000000

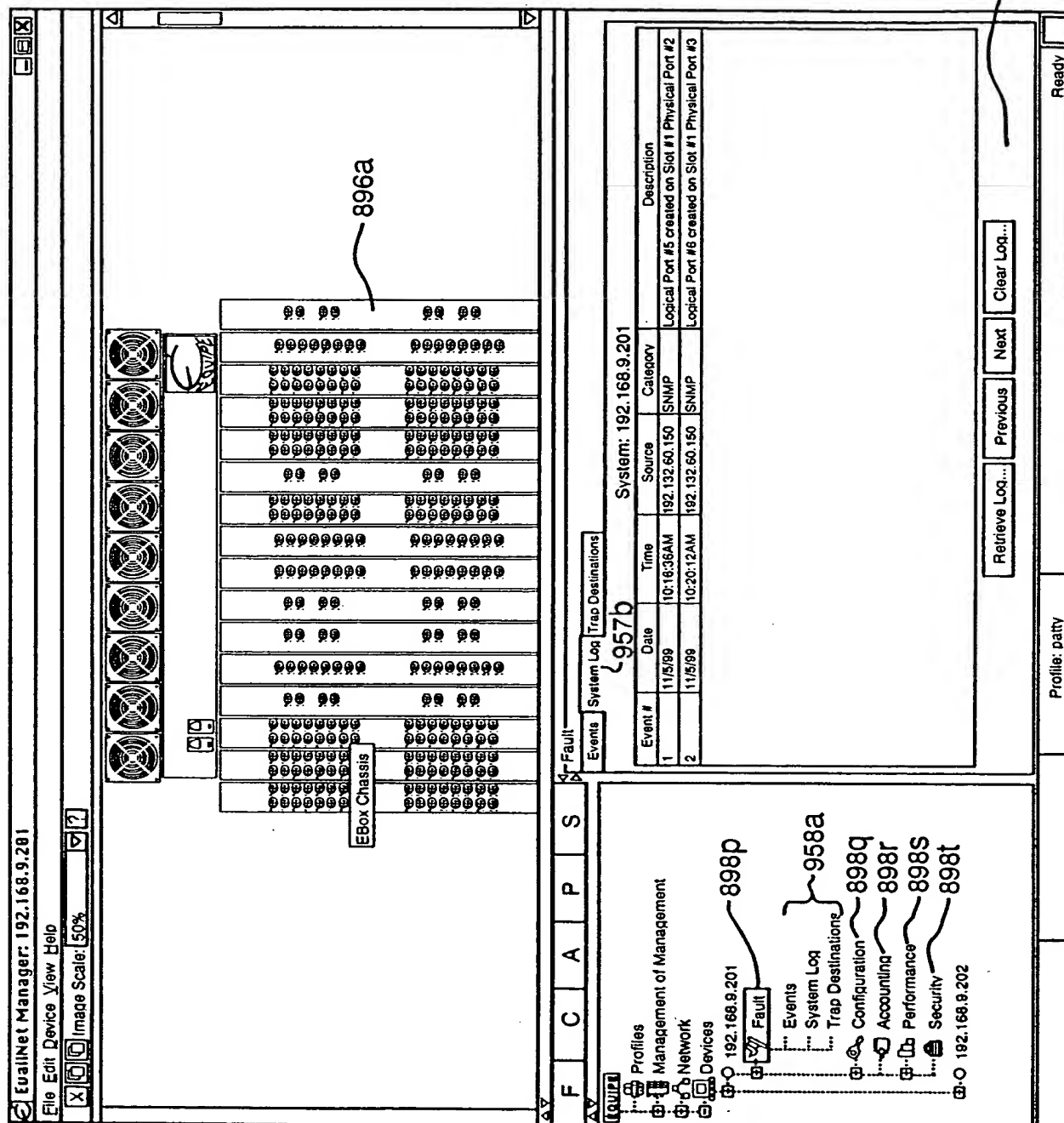
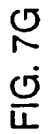
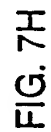


FIG. 7F





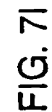
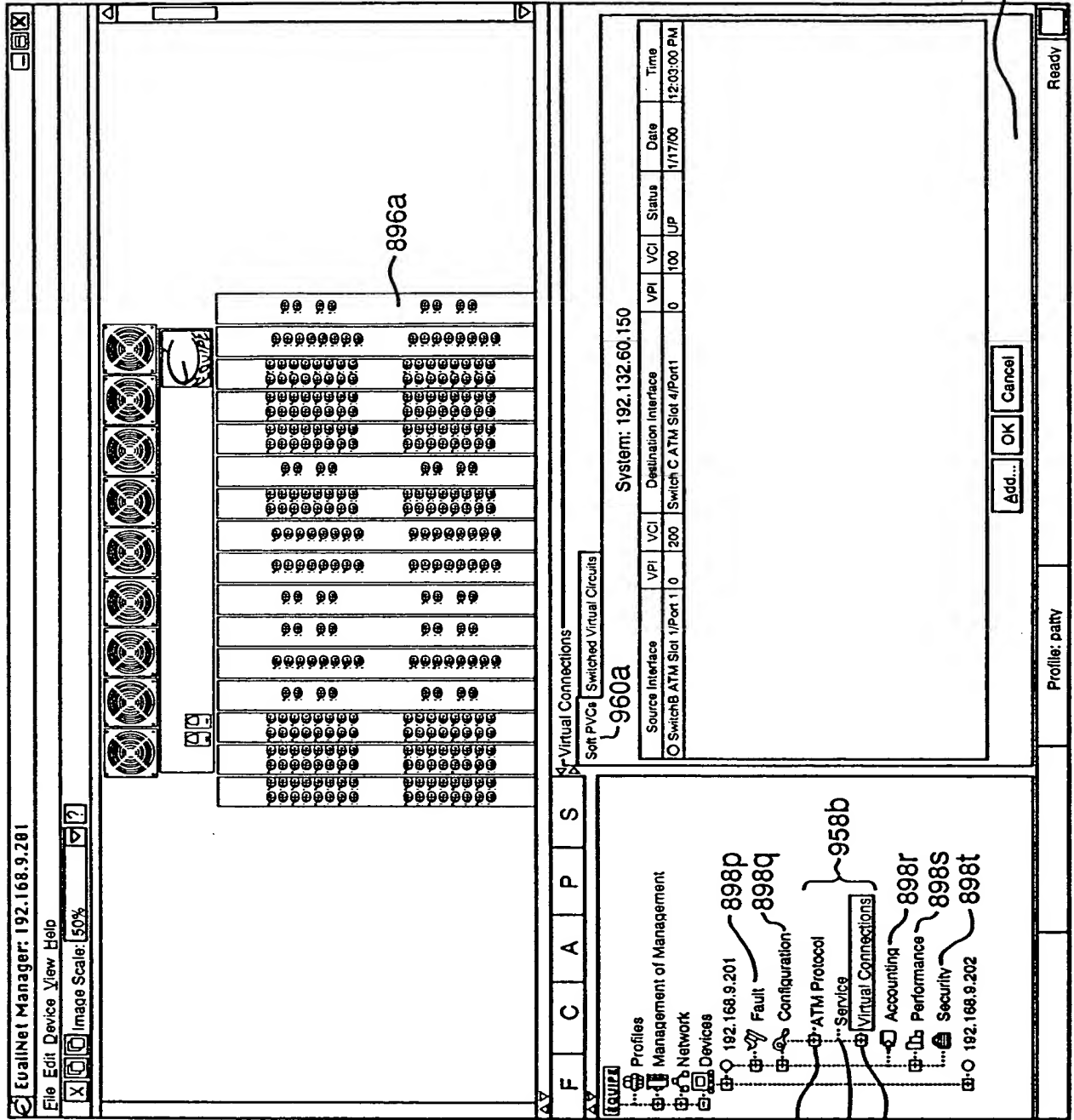


FIG. 71

102689-67

895



897

FIG. 7J

10/28/95 9:54:50

895

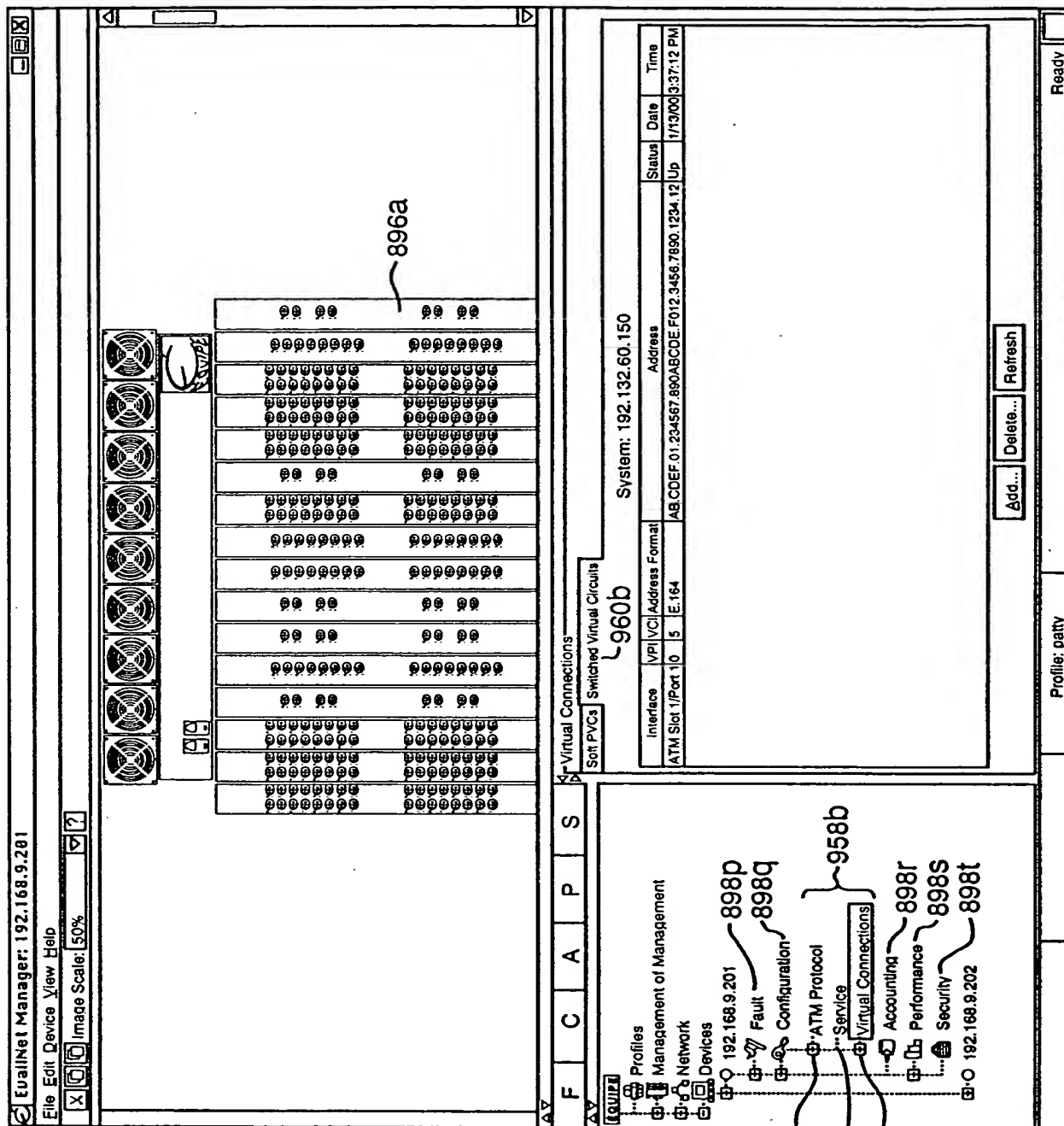
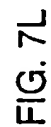


FIG. 7K



102280*4695260

895

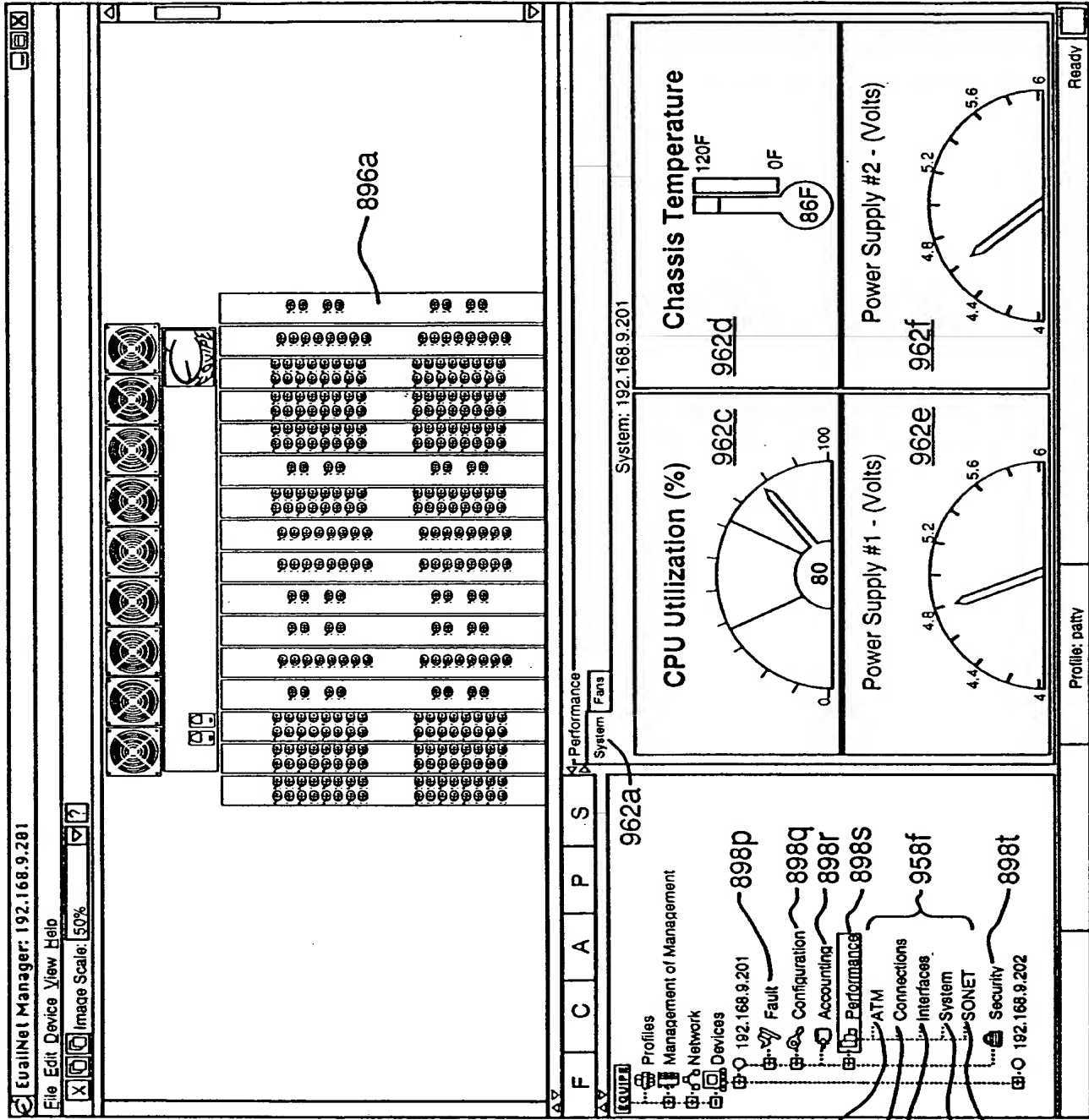


FIG. 7M

102689-67

895

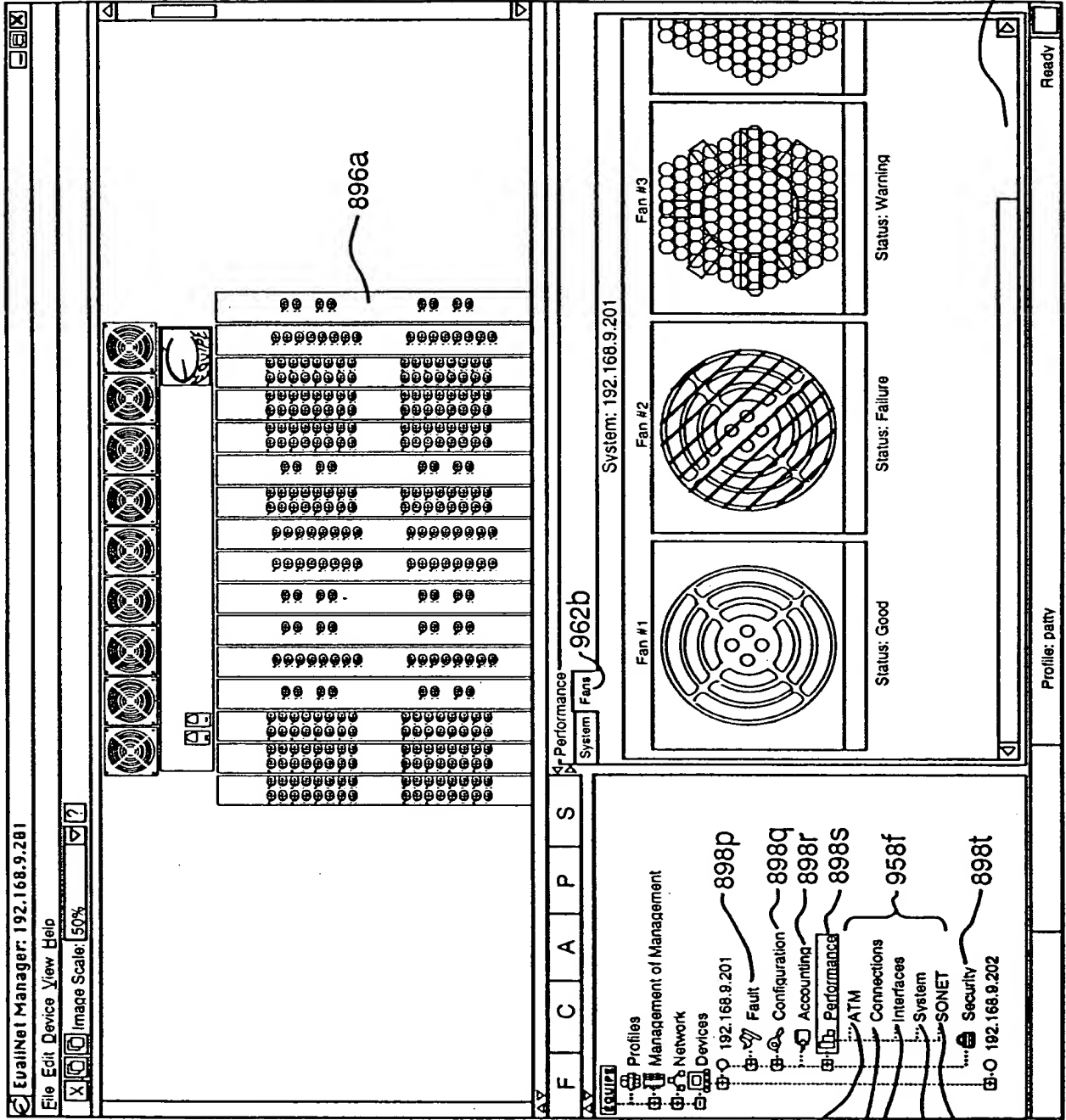


FIG. 7N

FOZ280" 92695260

895

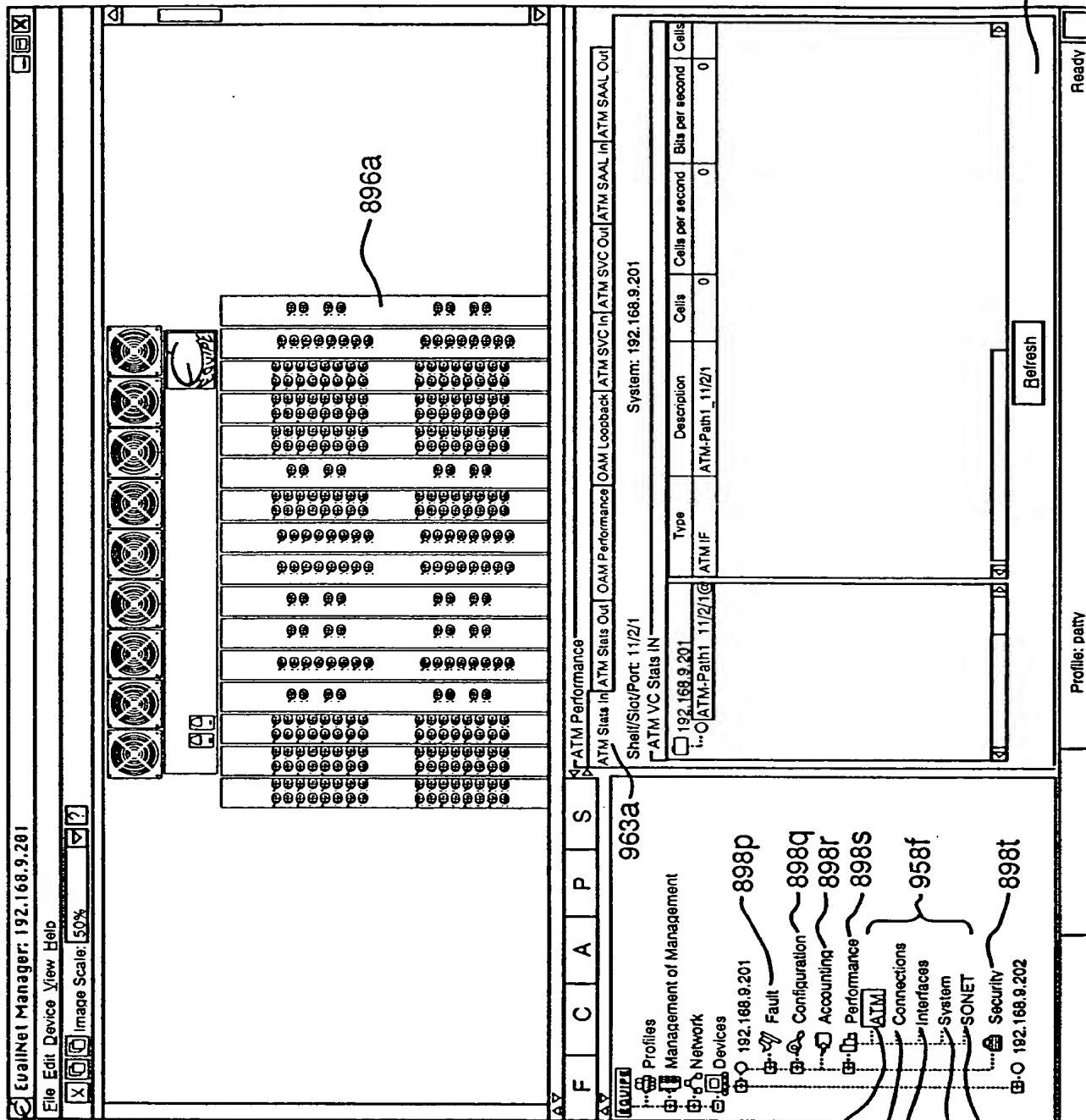


FIG. 70

102689-67

895

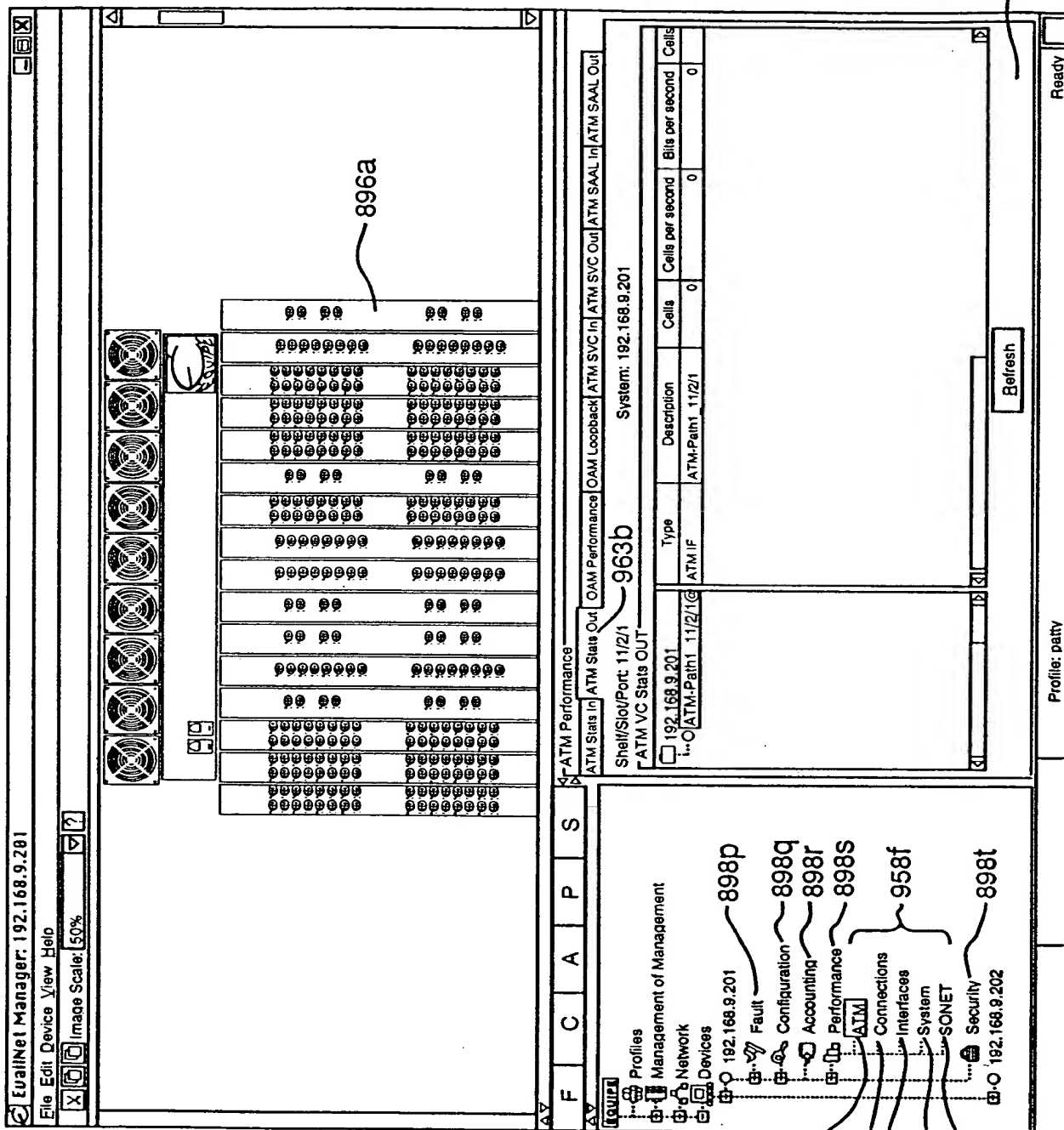


FIG. 7P

102689-67

895

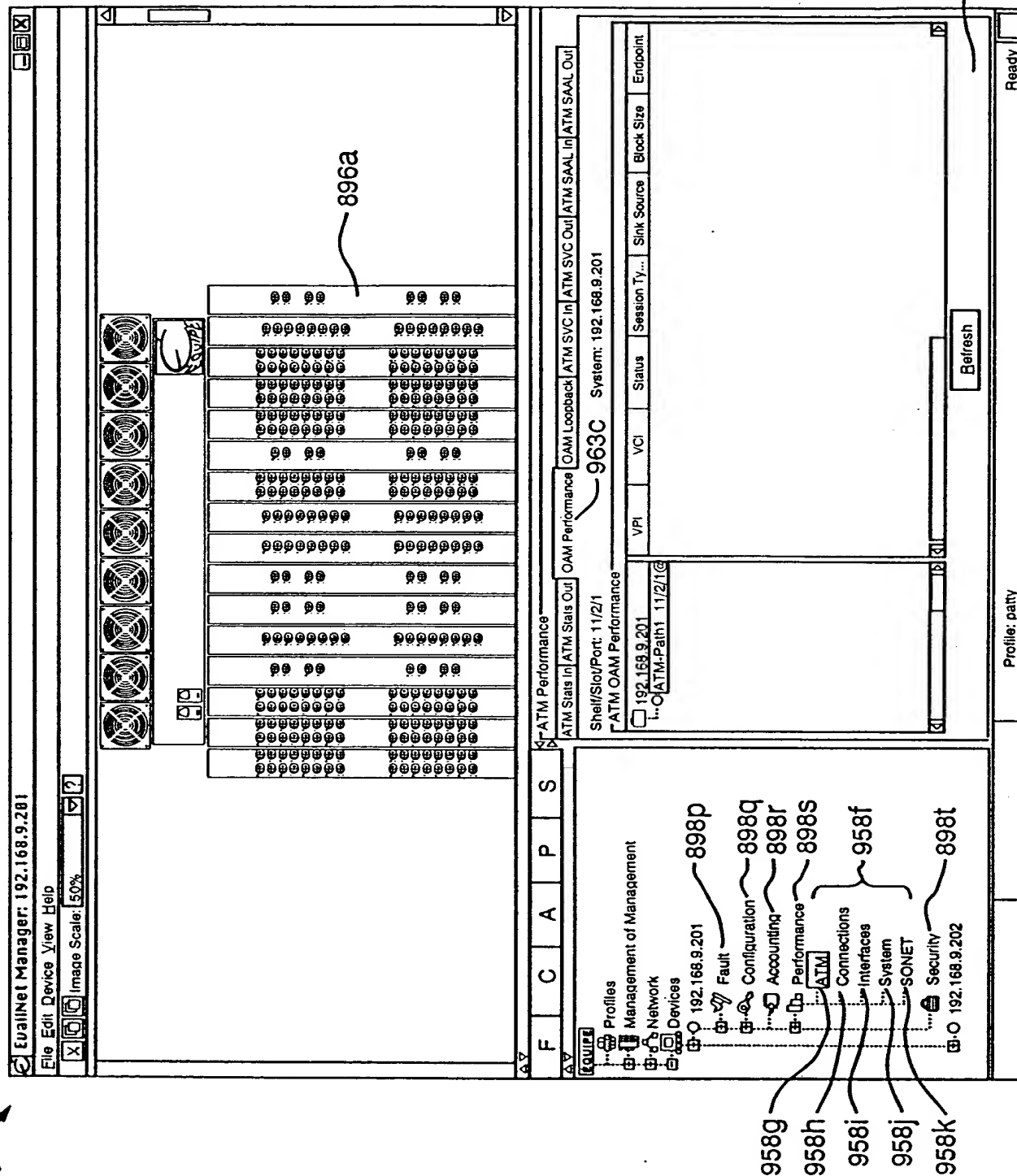


FIG. 7Q

10/23/96 9:55:26

895

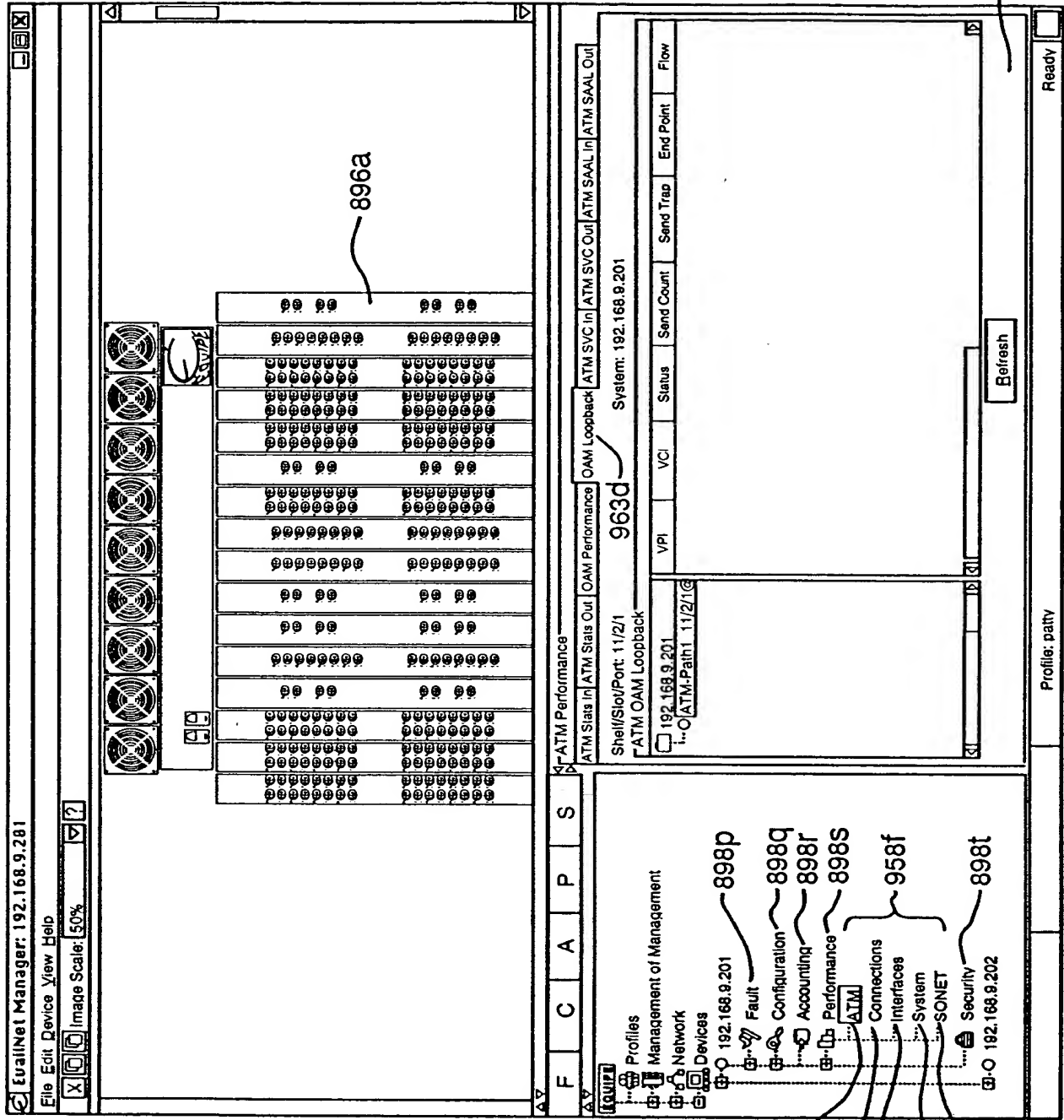
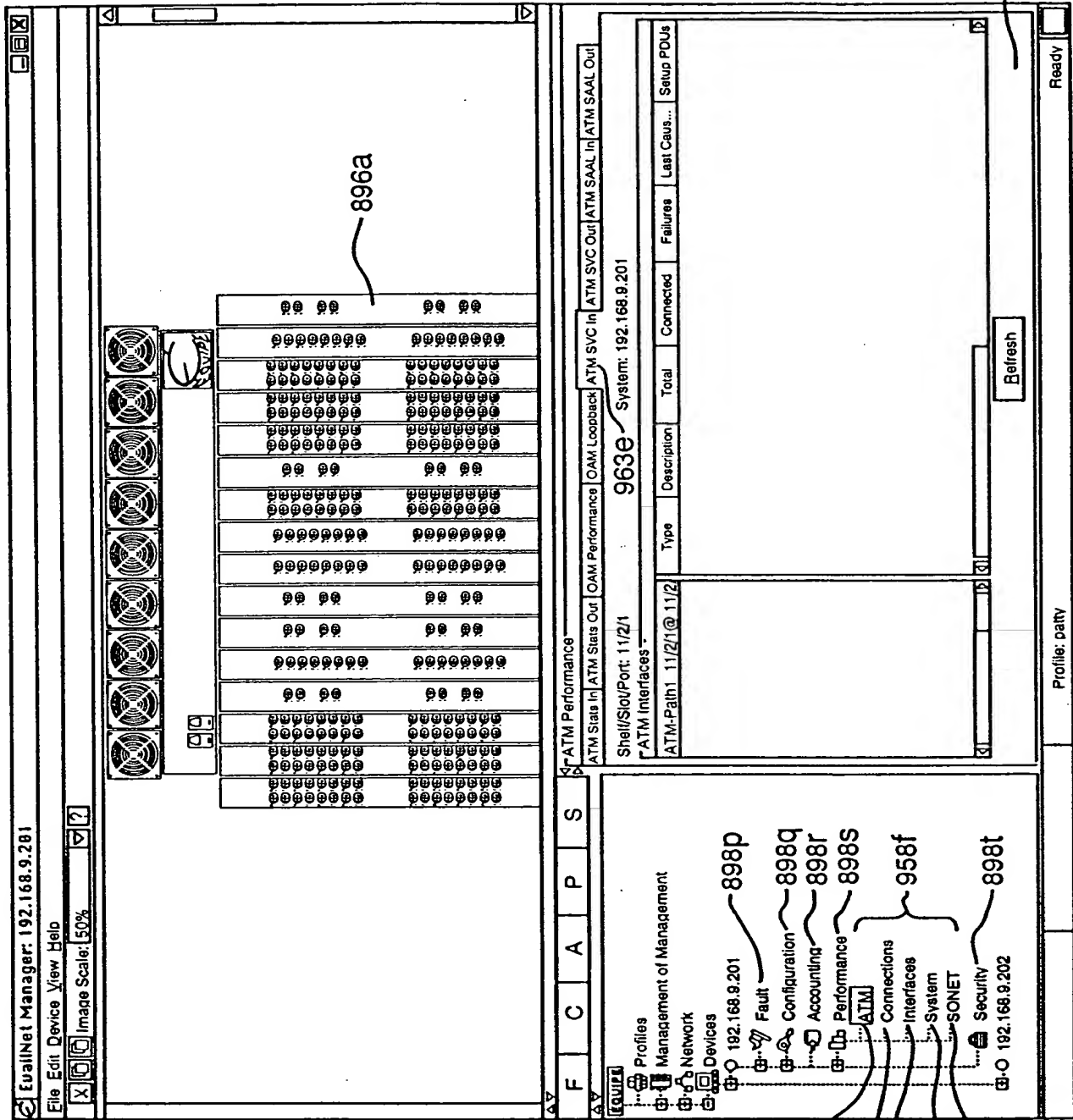


FIG. 7R

TD2280 92695/60

895

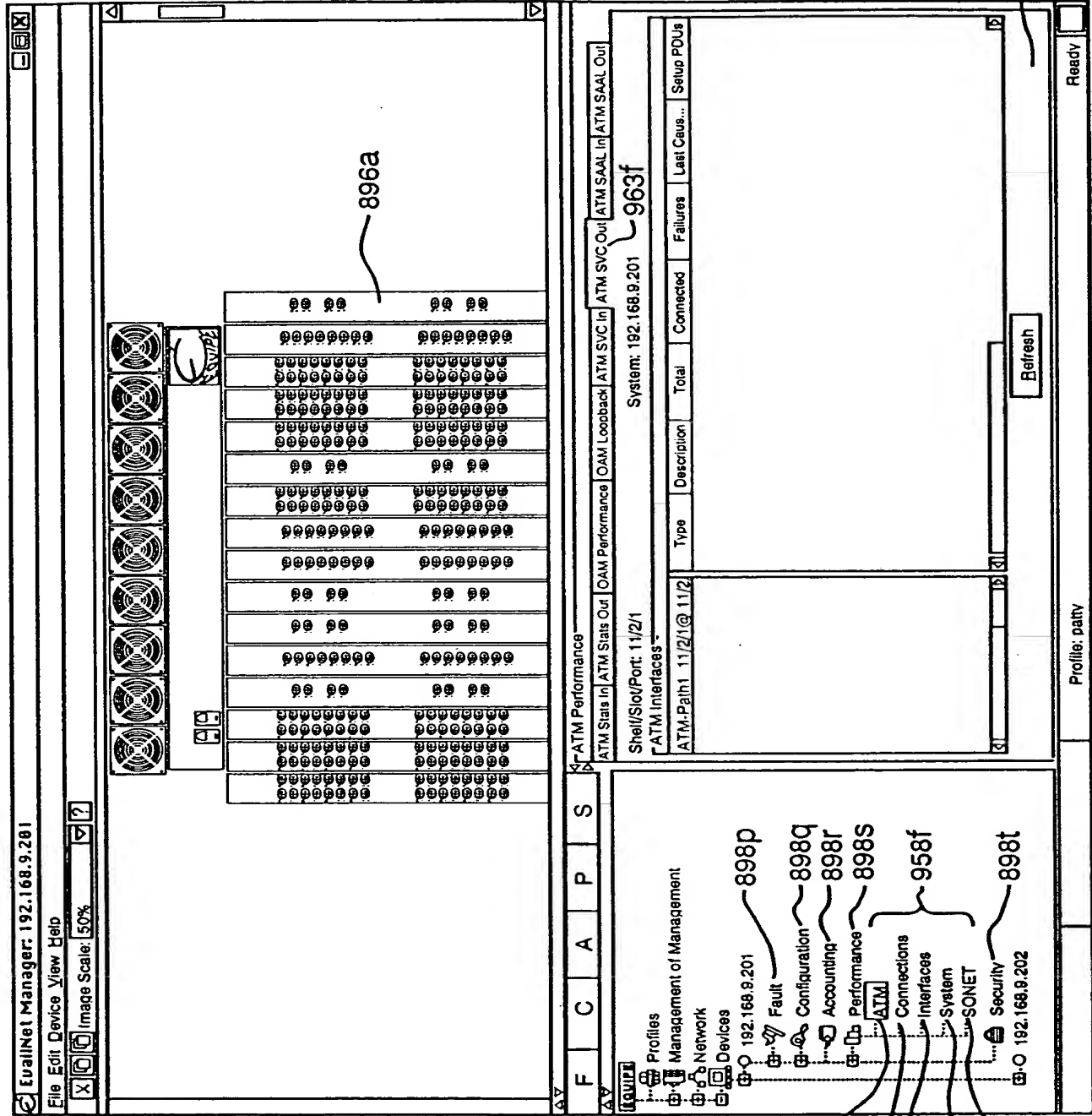


897

FIG. 7S

10/28/95 9:54:60

895



897

958g
958h
958i
958j
958k

898p
898q
898r
898s
958f
958t

192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202

FIG. 7T

10/22/00 9:55:56

895

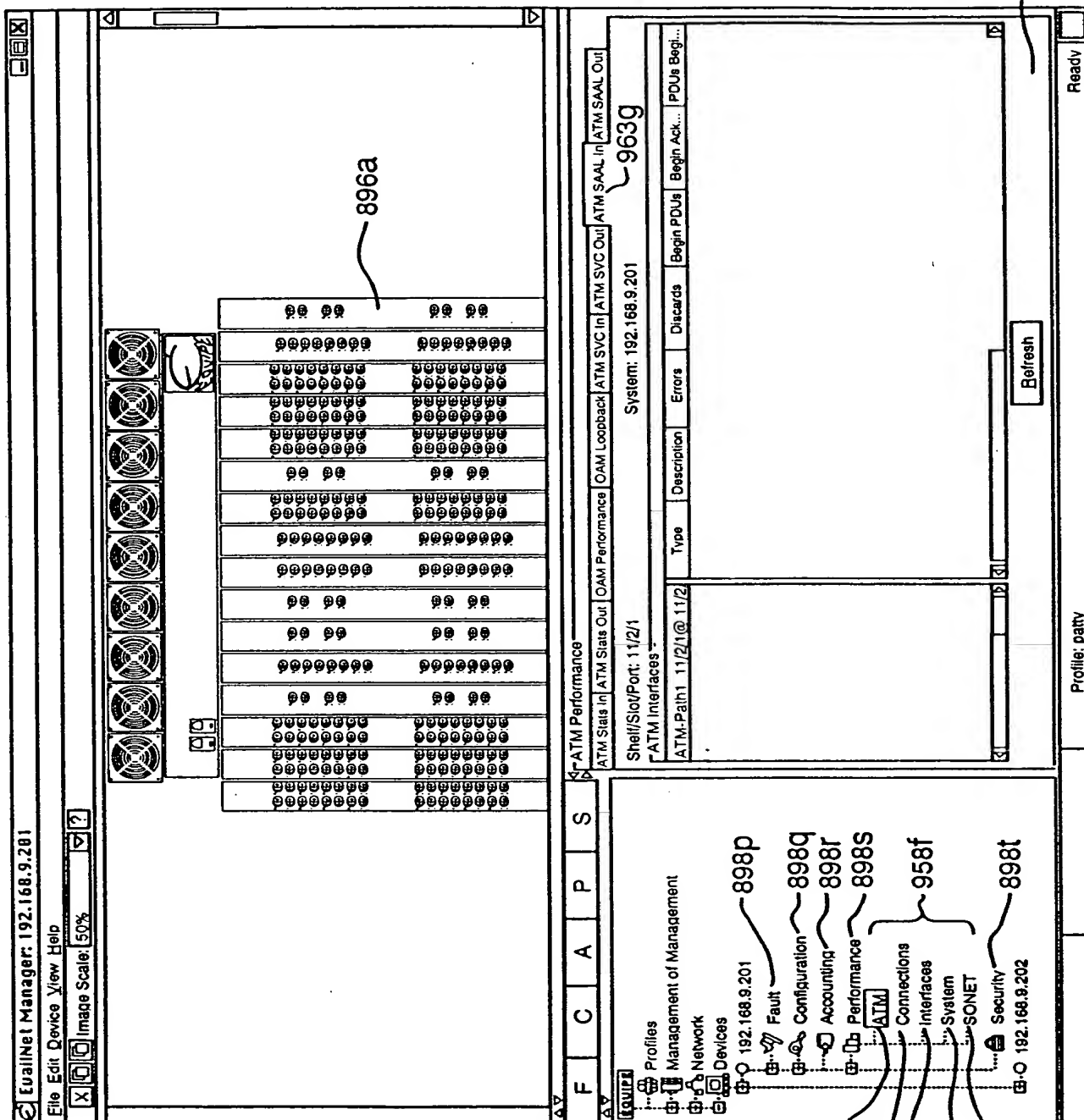


FIG. 7U

10/2/2009 9:55:26 AM

895

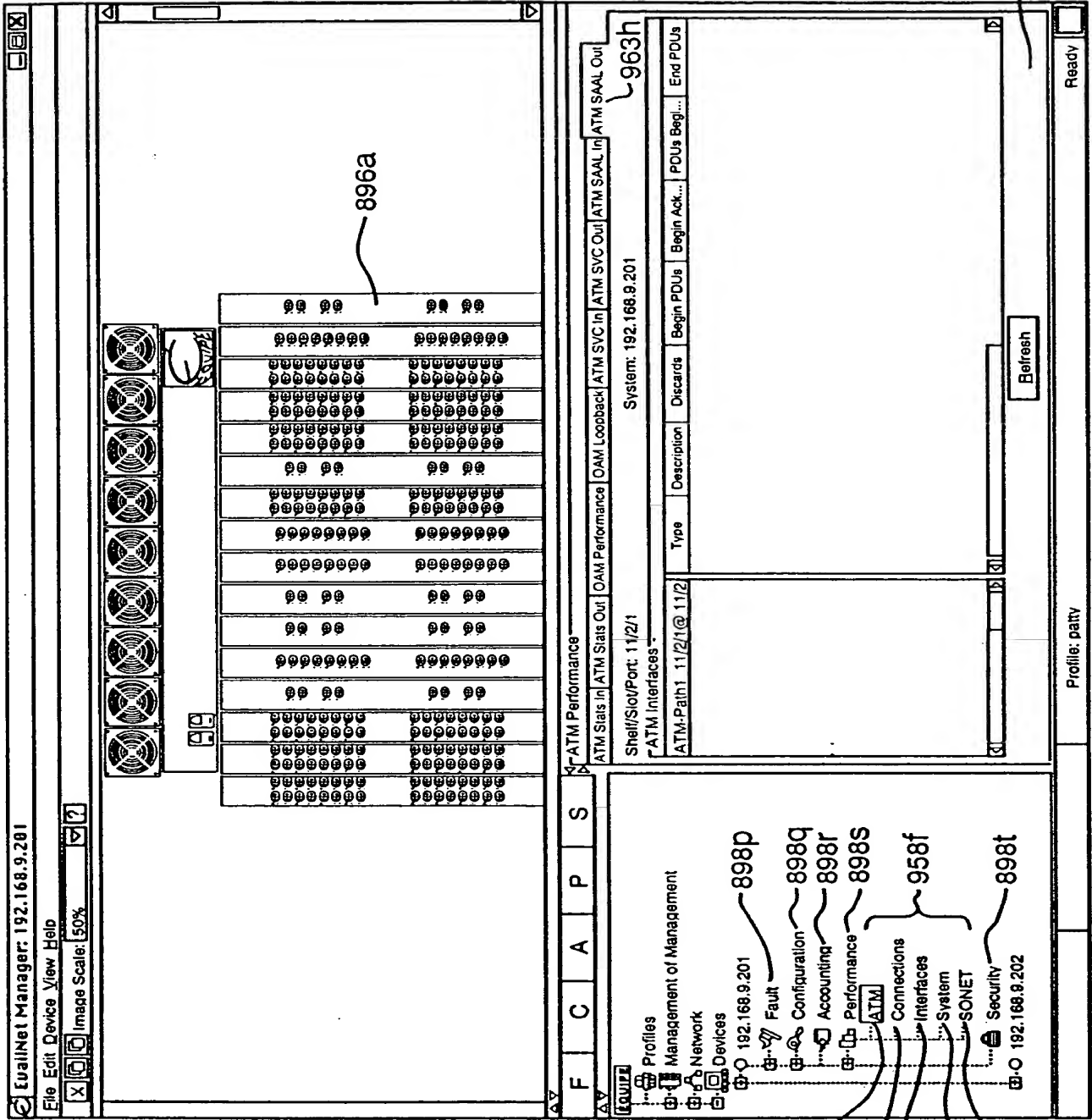
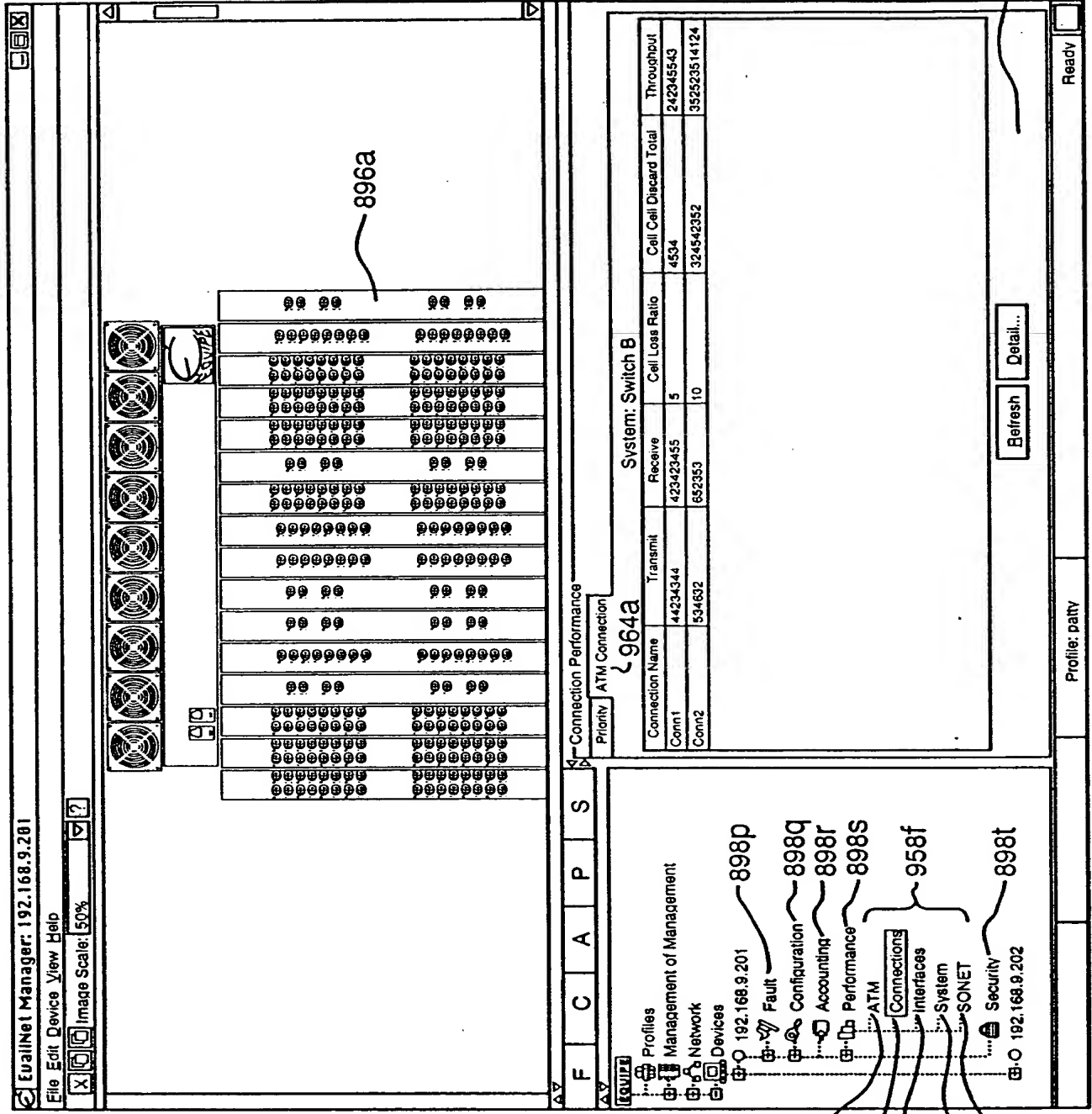


FIG. 7V

10/22/00 9:56:54 AM

895



897

FIG. 7W

102689-67

895

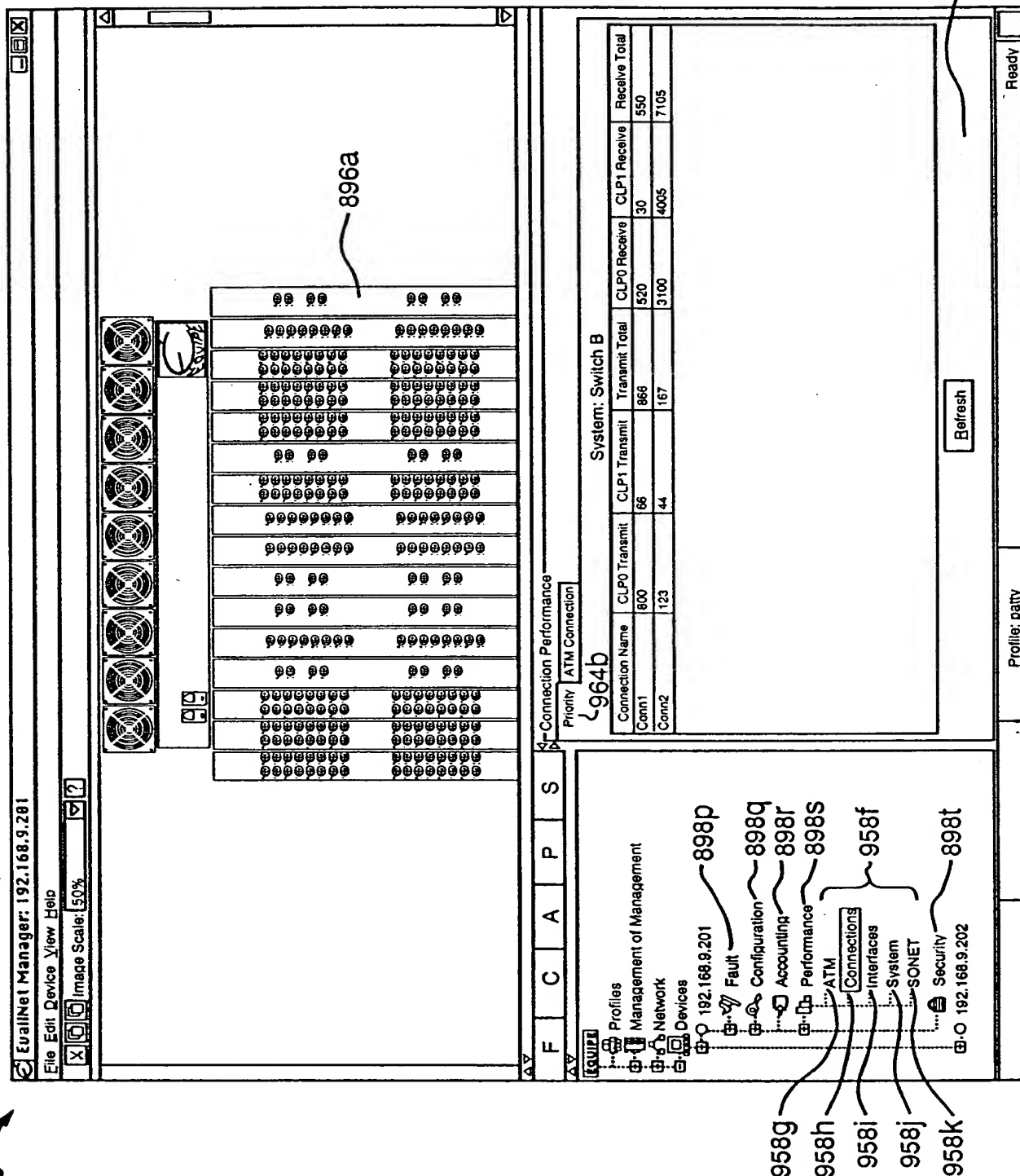


FIG. 7X

102689-67

895

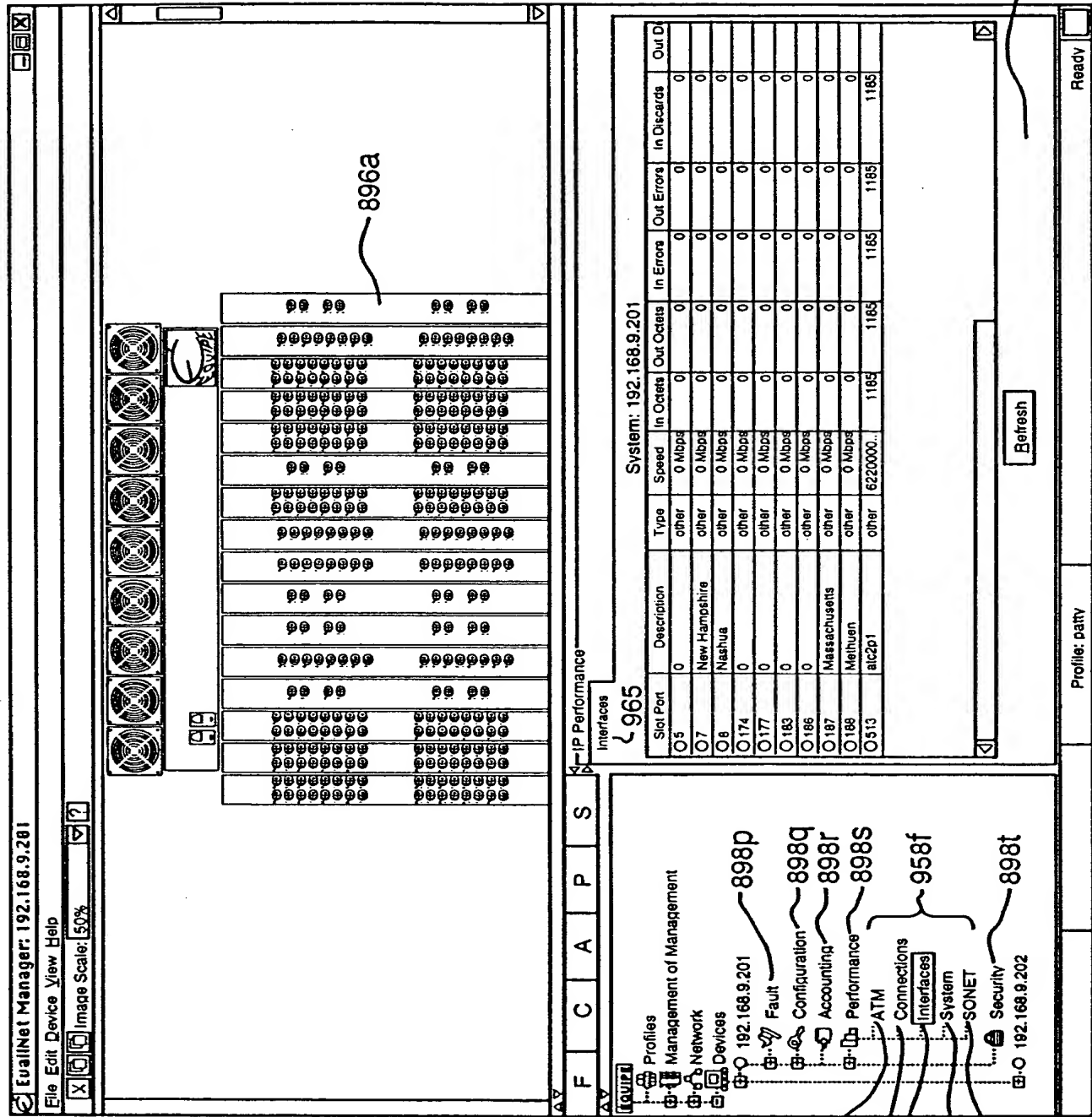


FIG. 7Y

10/22/2010 10:55:26

895

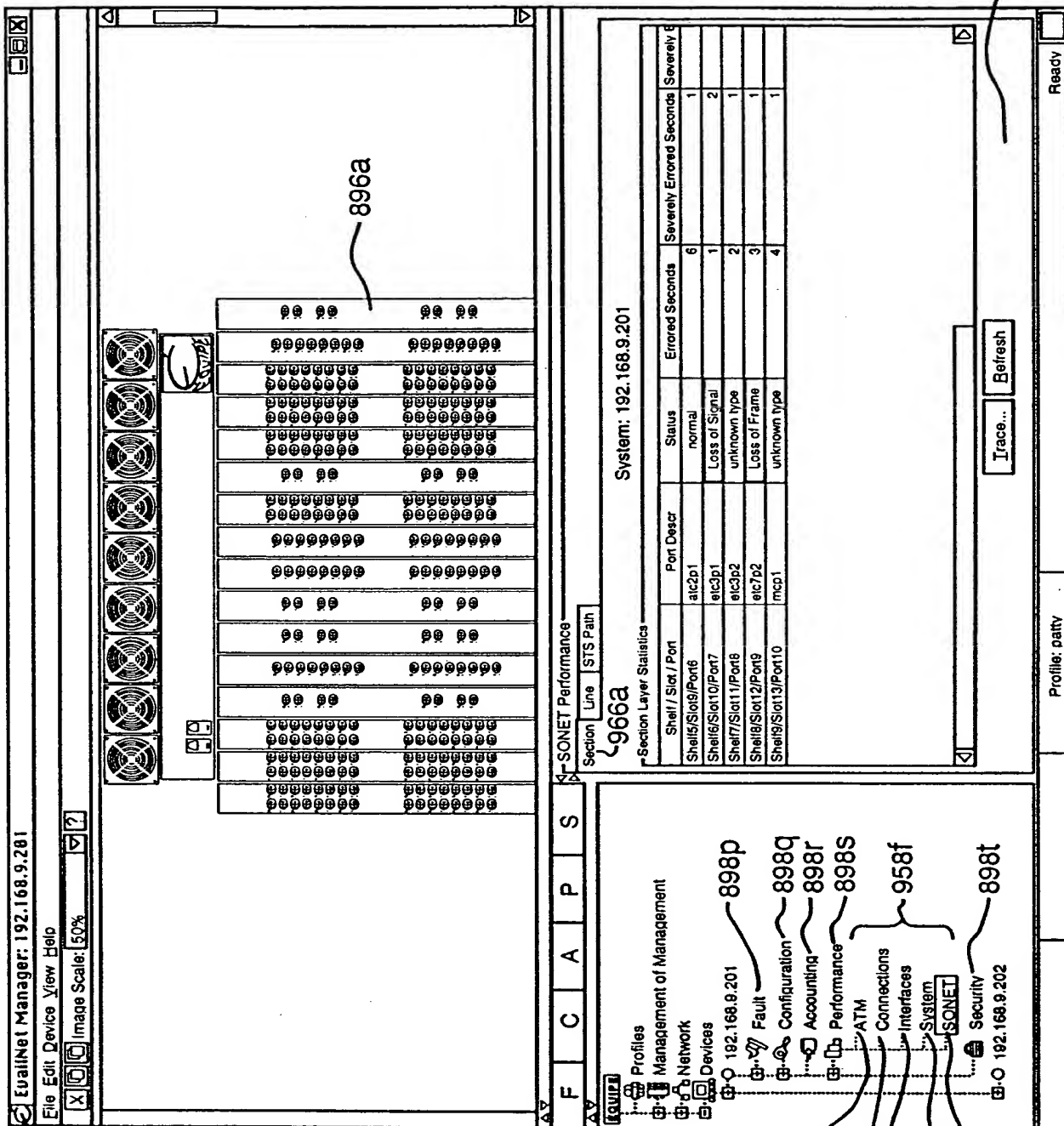


FIG. 8A

102689-67

895

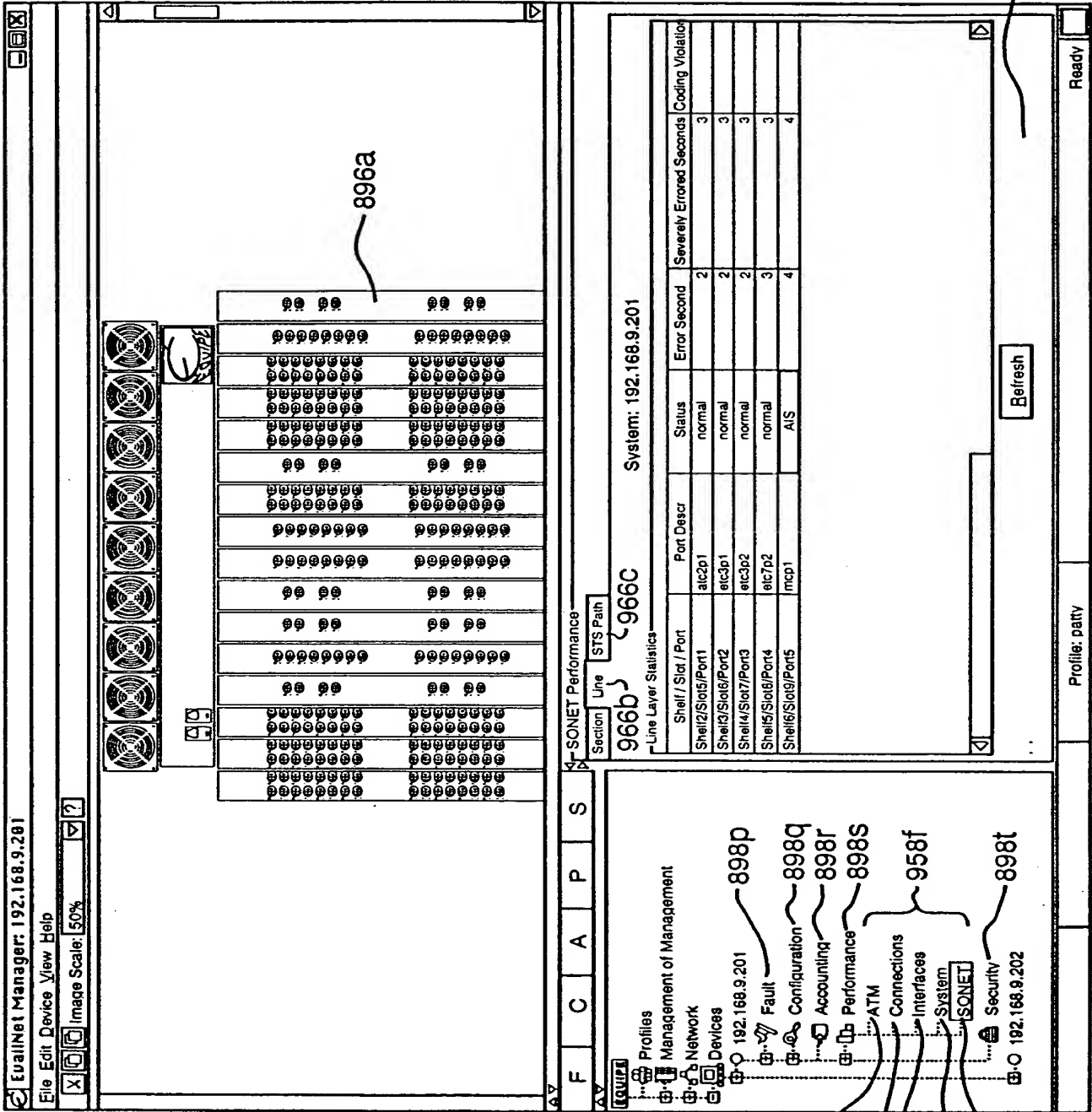


FIG. 8B

102689-67

895

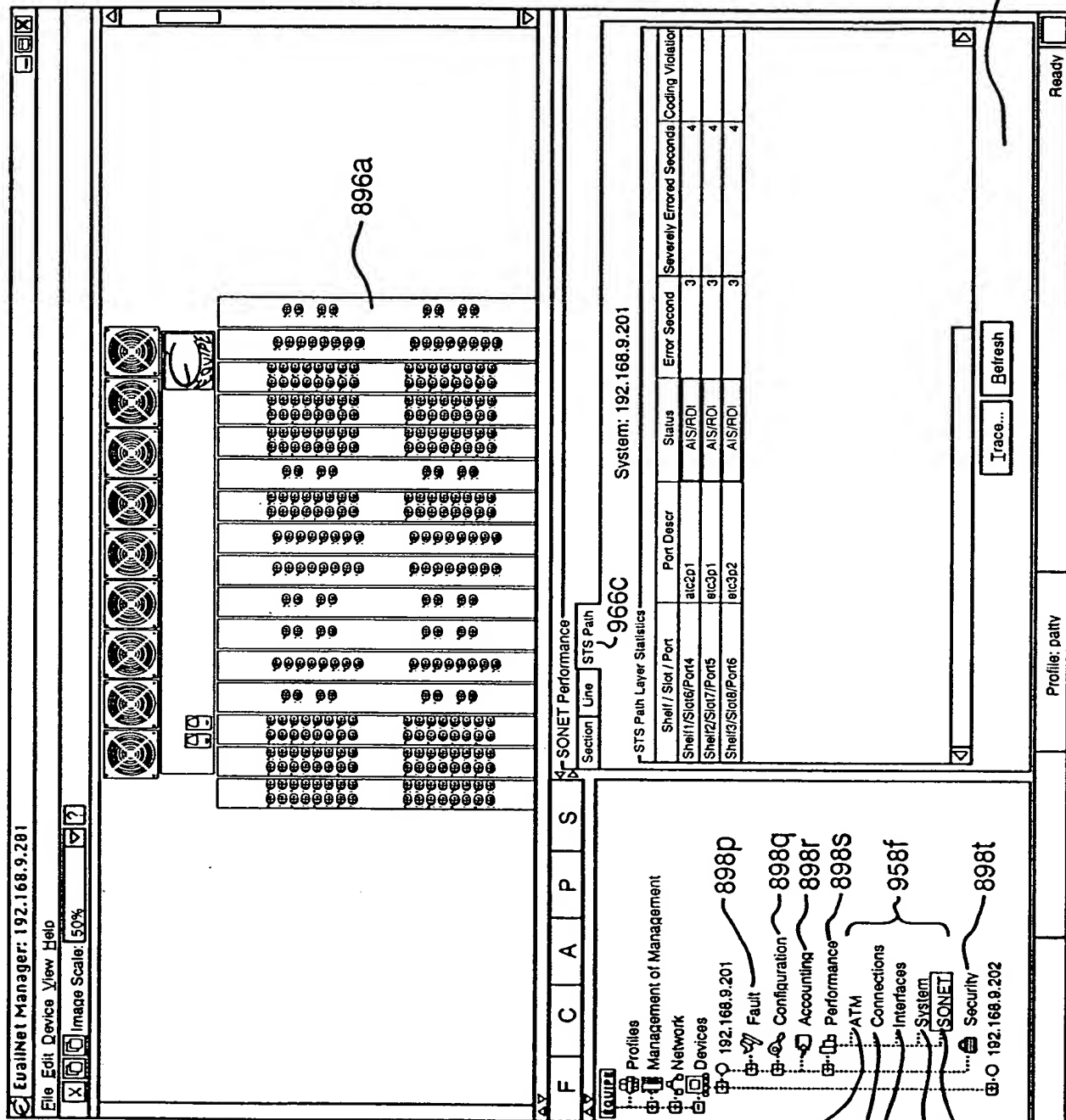
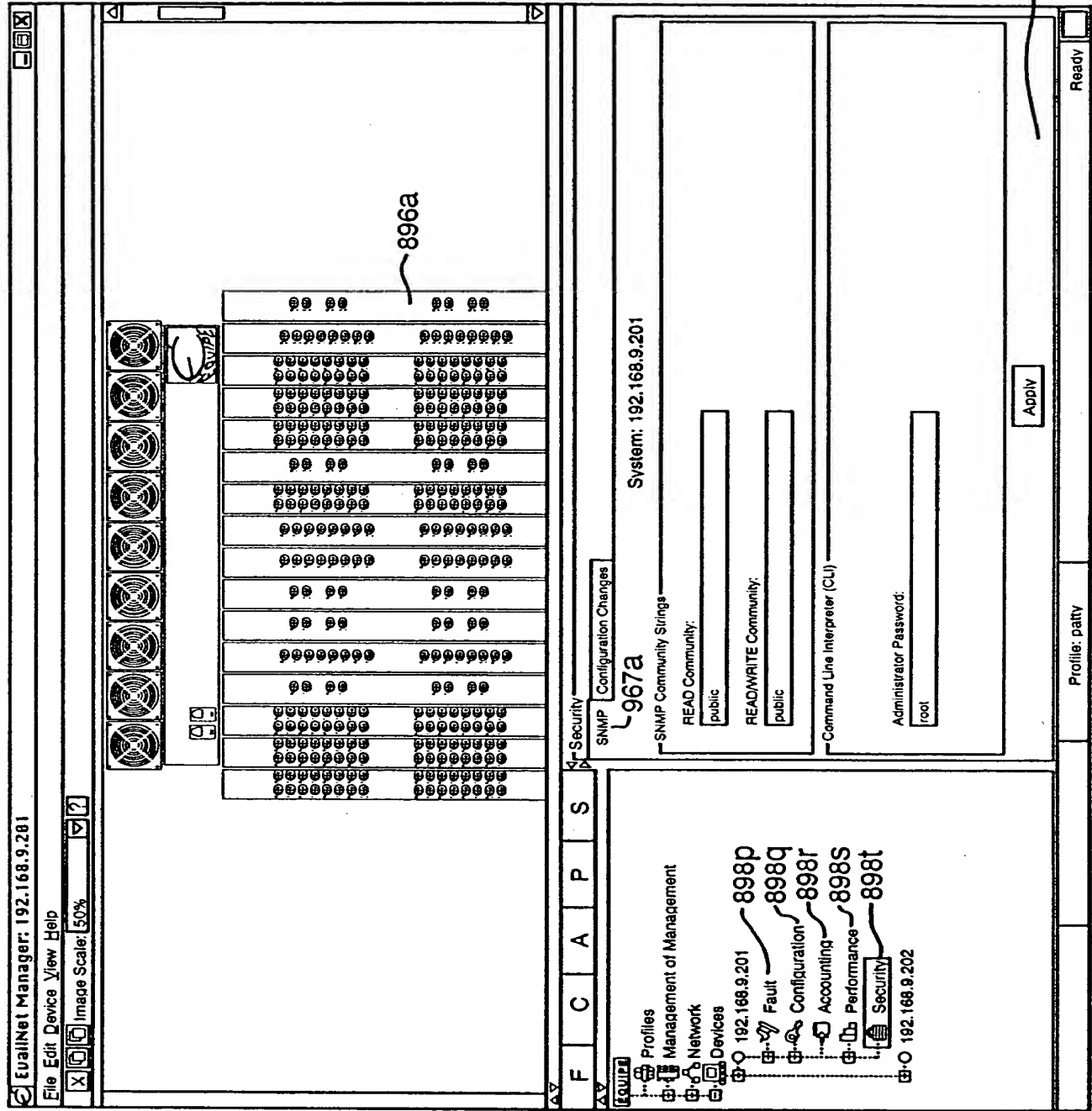


FIG. 8C

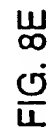
10/23/99 10:23:54

895



897

FIG. 8D



102689-67

895

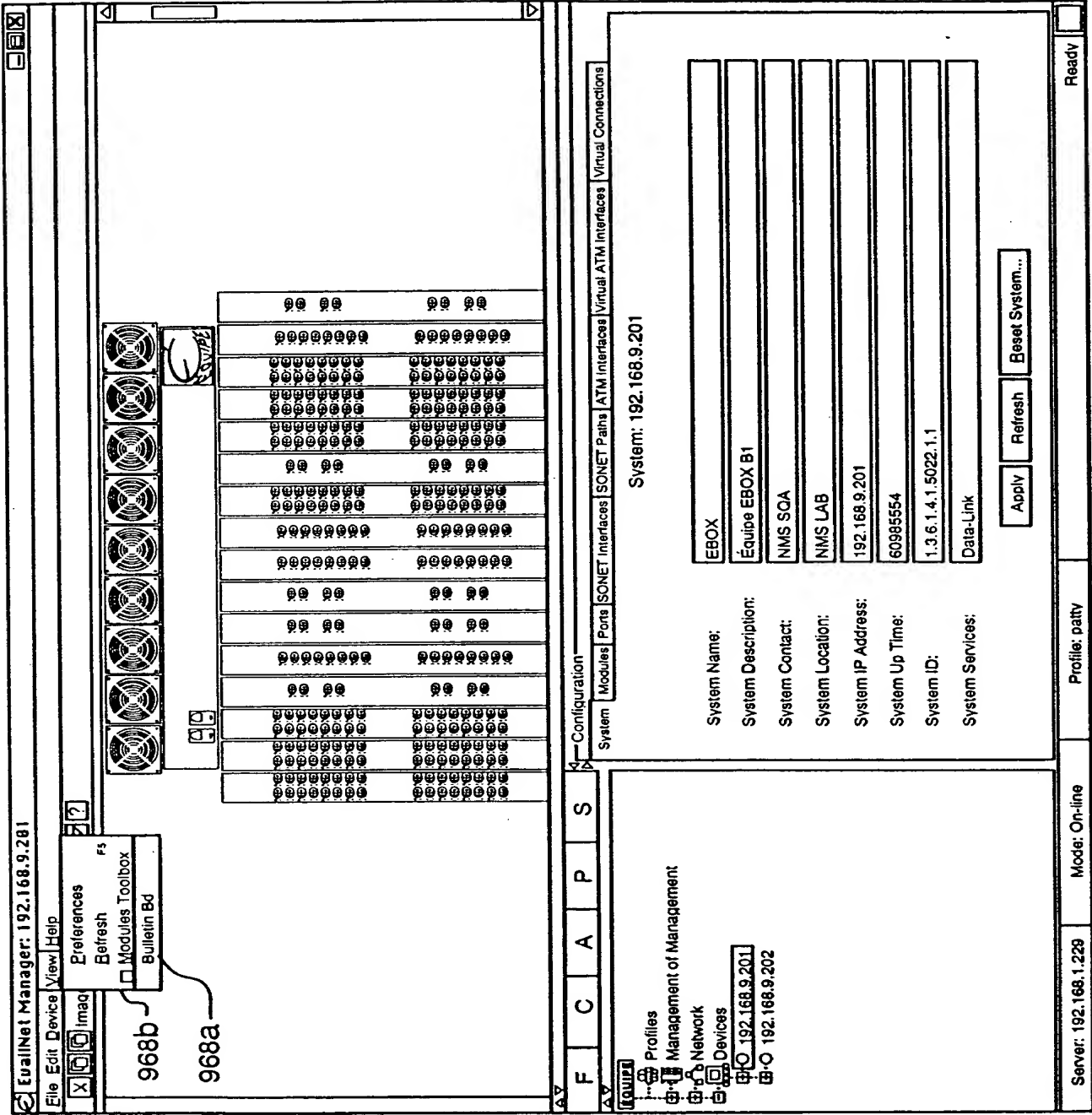


FIG. 9A

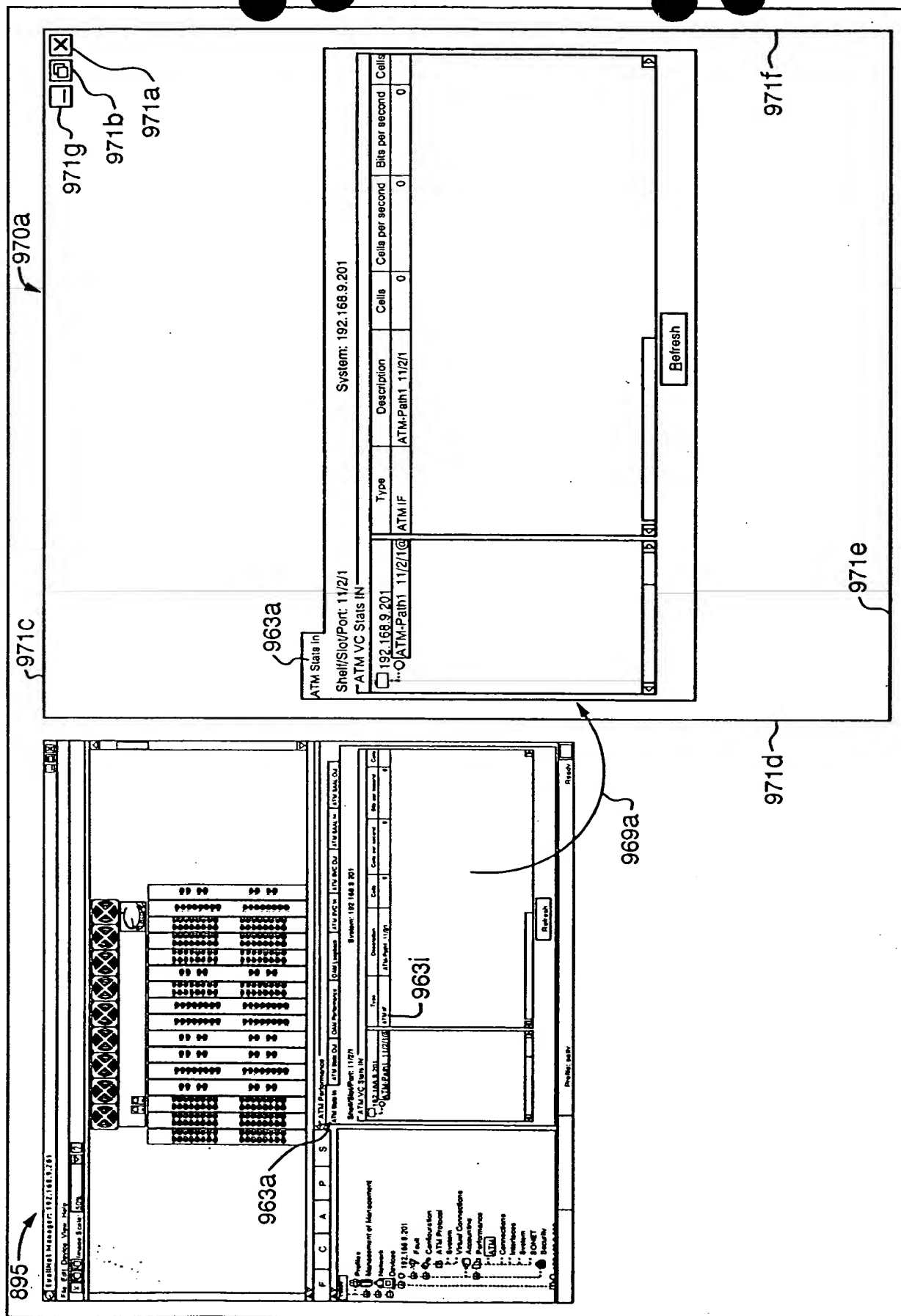


FIG. 9B

T0/230" 96695/60

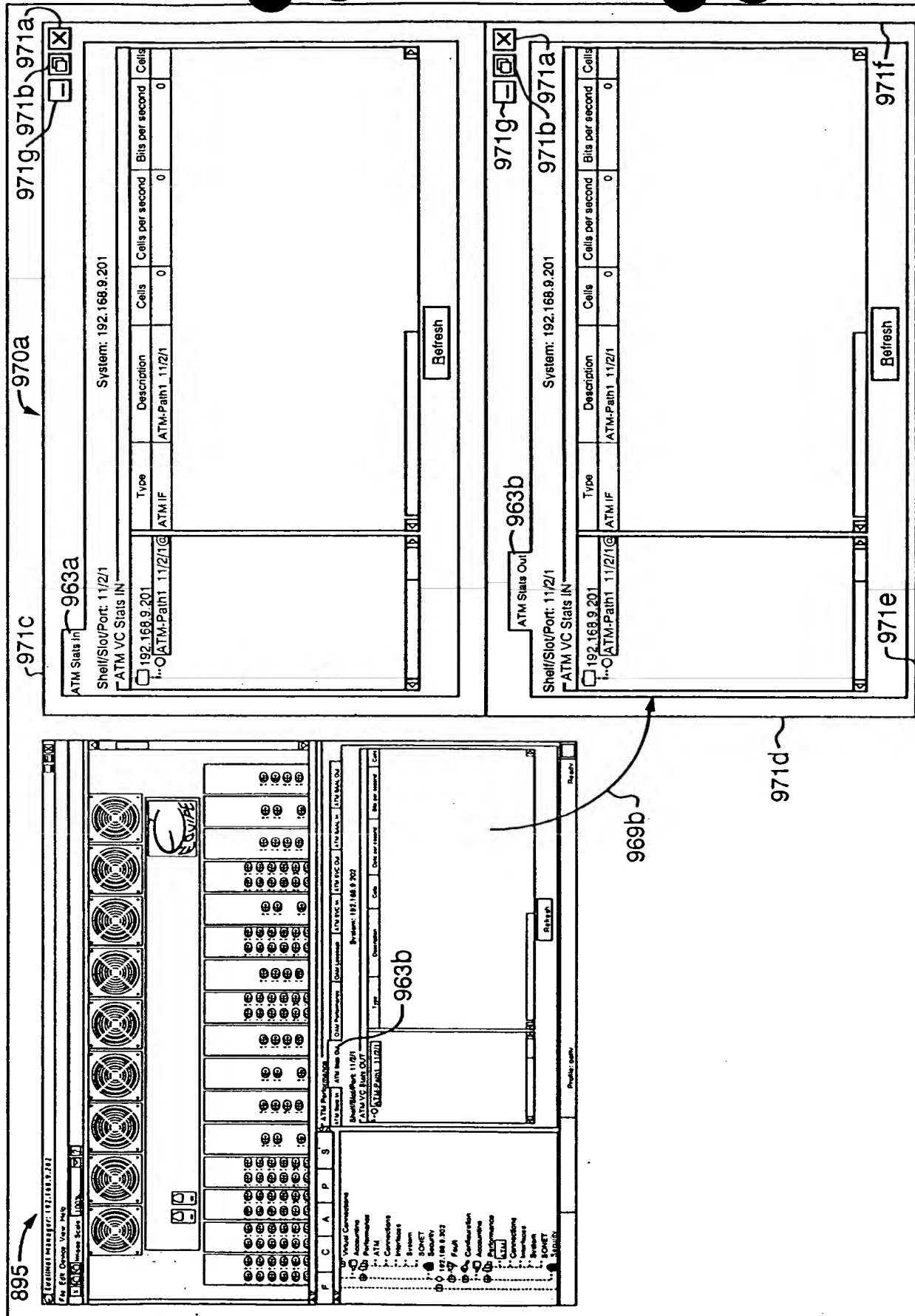


FIG. 9C

102689-67 98535/60

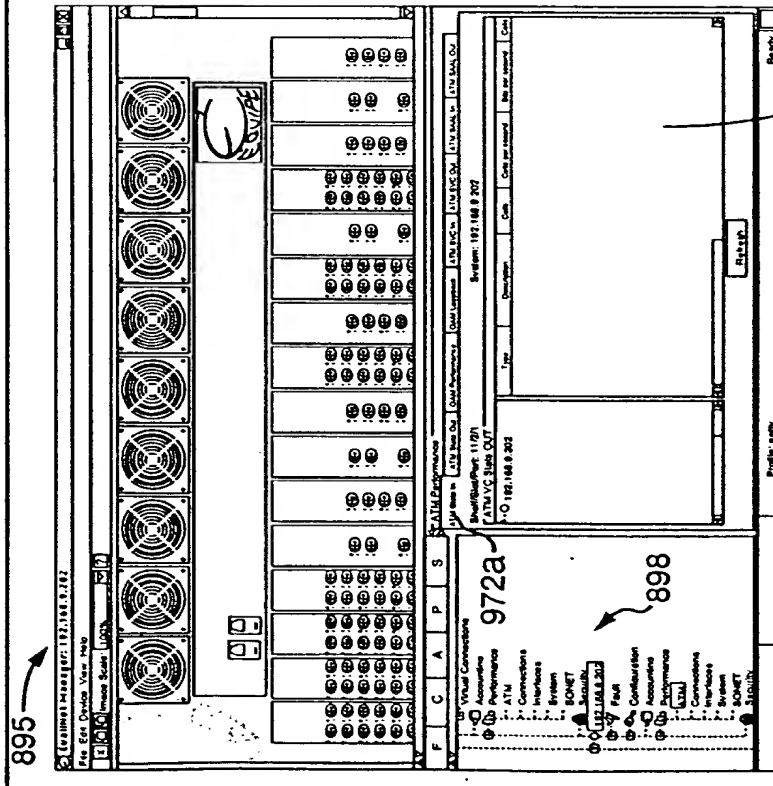
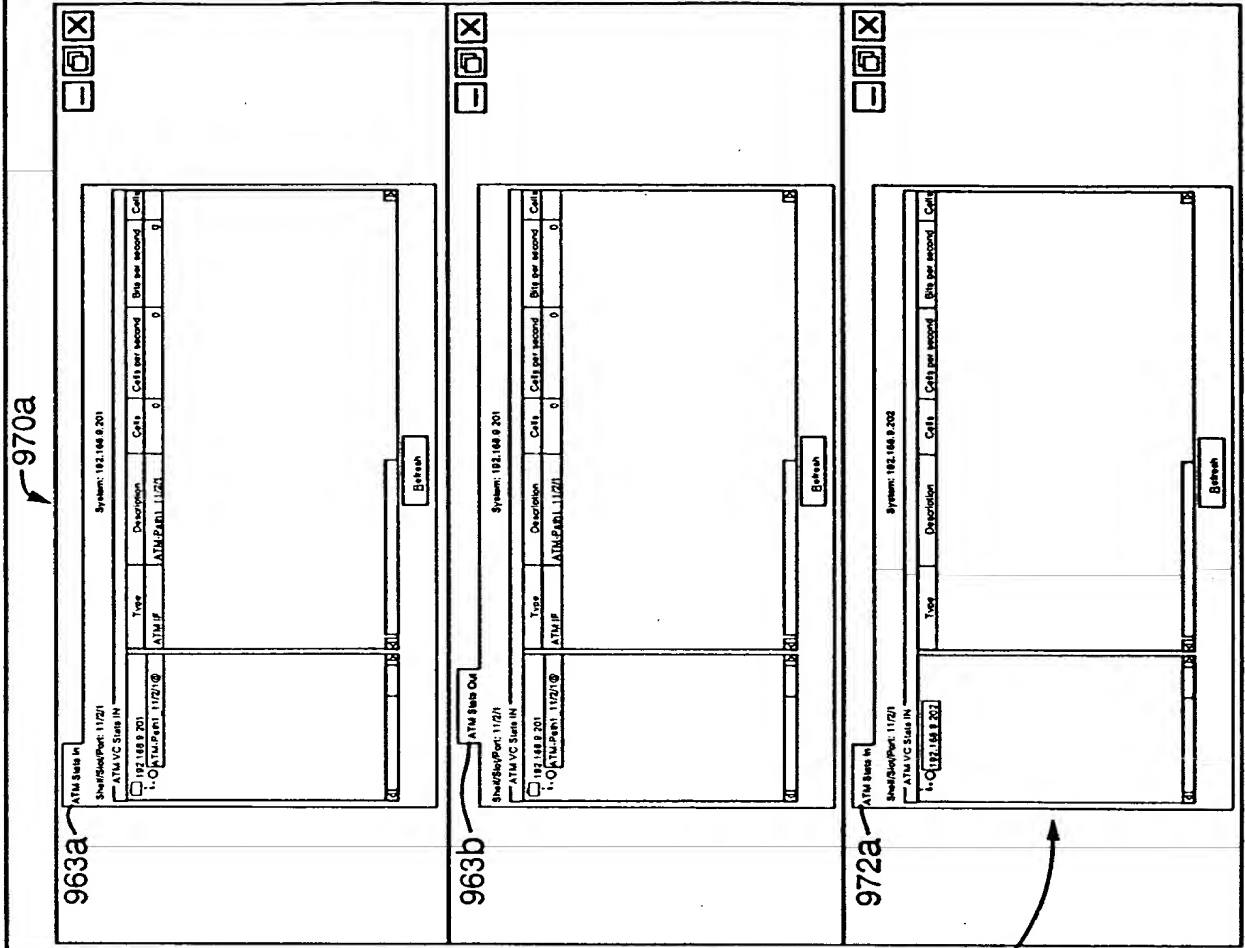


FIG. 9D



970a

895

969C

898

10/23/99 09:59:26

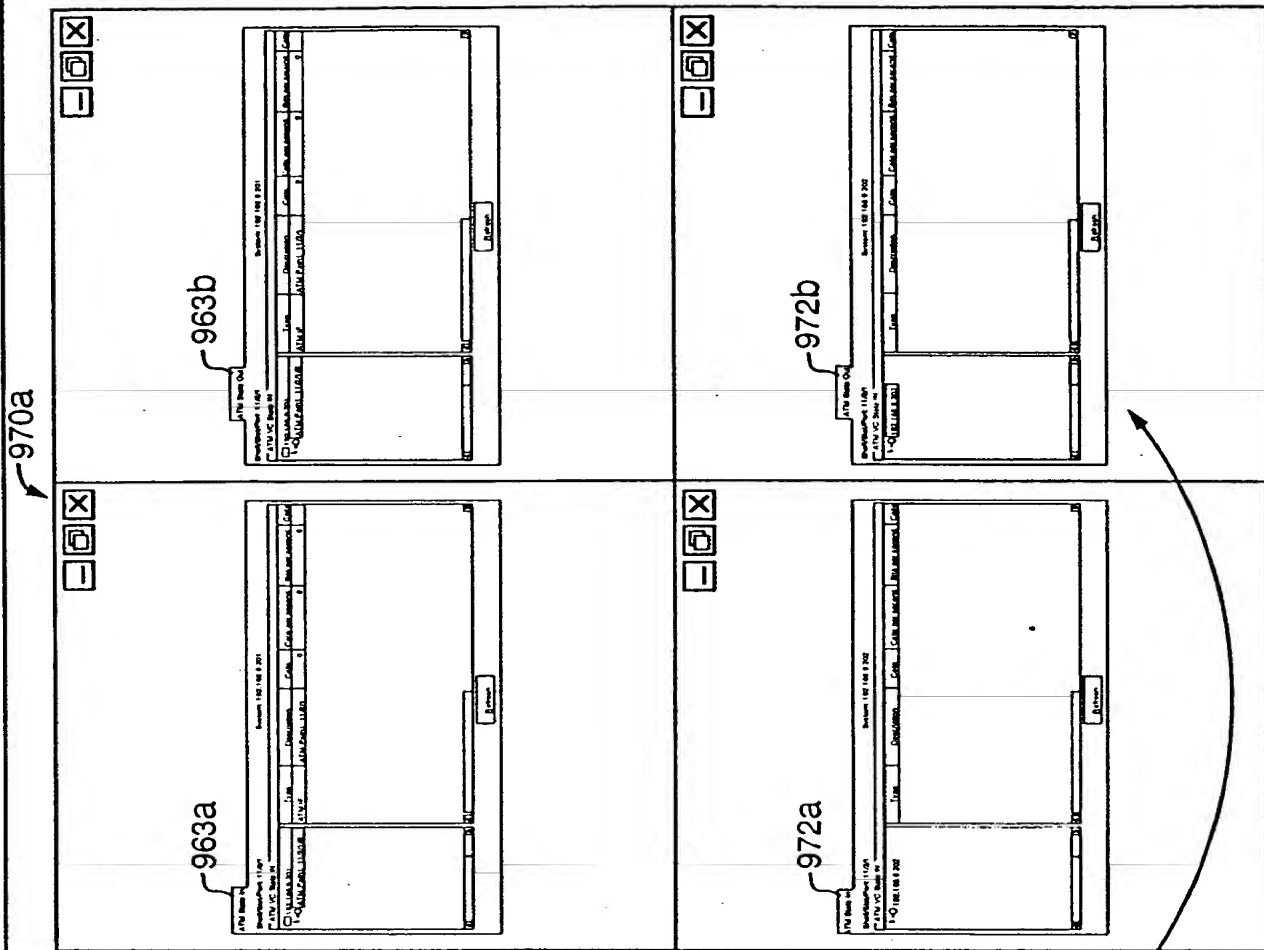
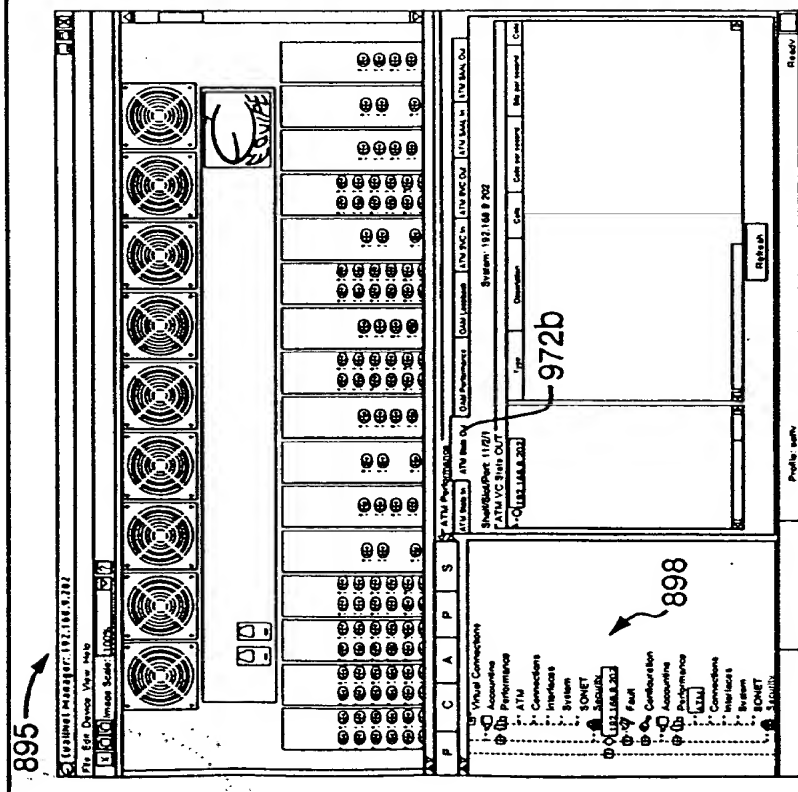


FIG. 9E

10/280 9655/60

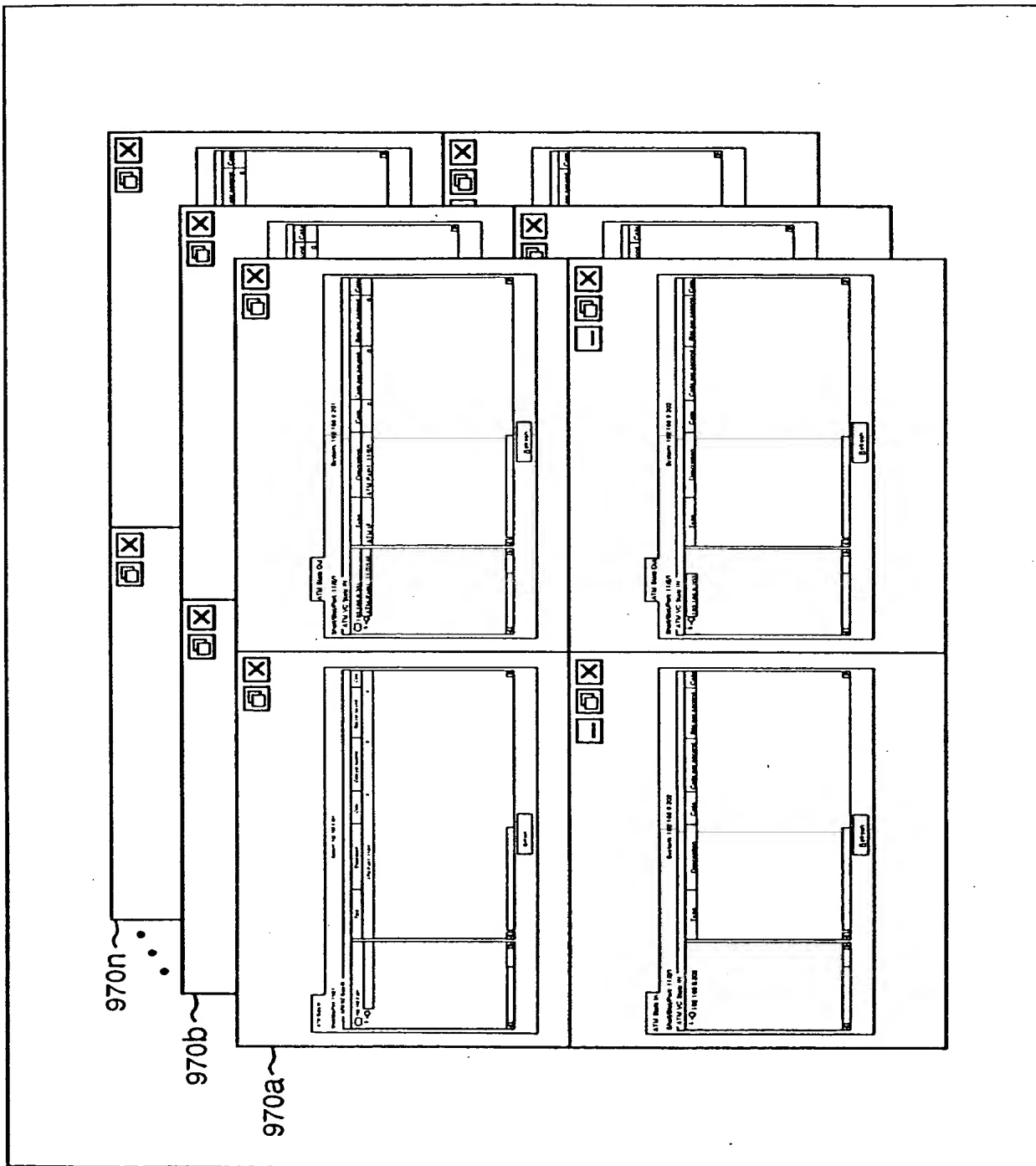


FIG. 9F

FIG. 9G

970a

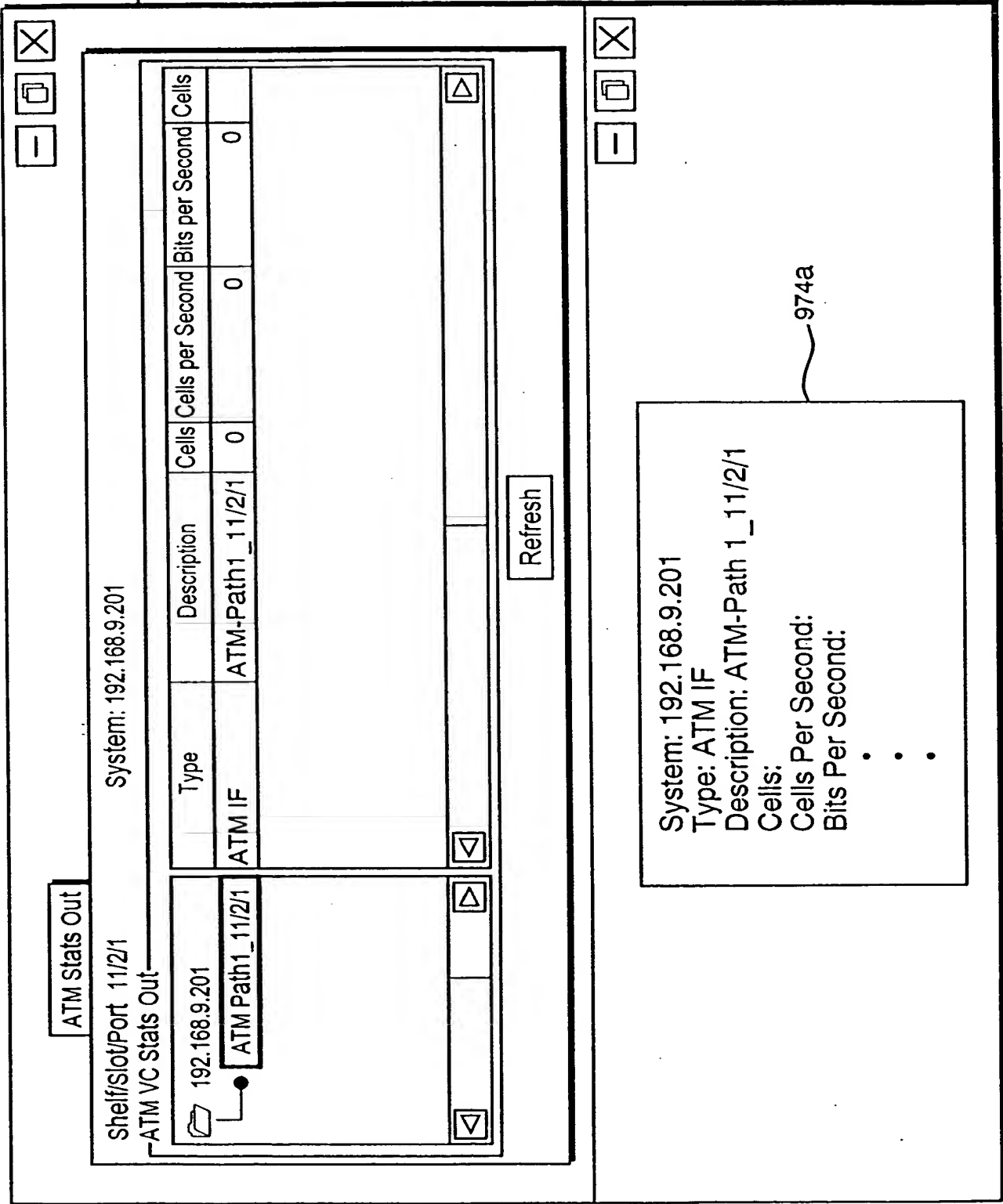


FIG. 9H

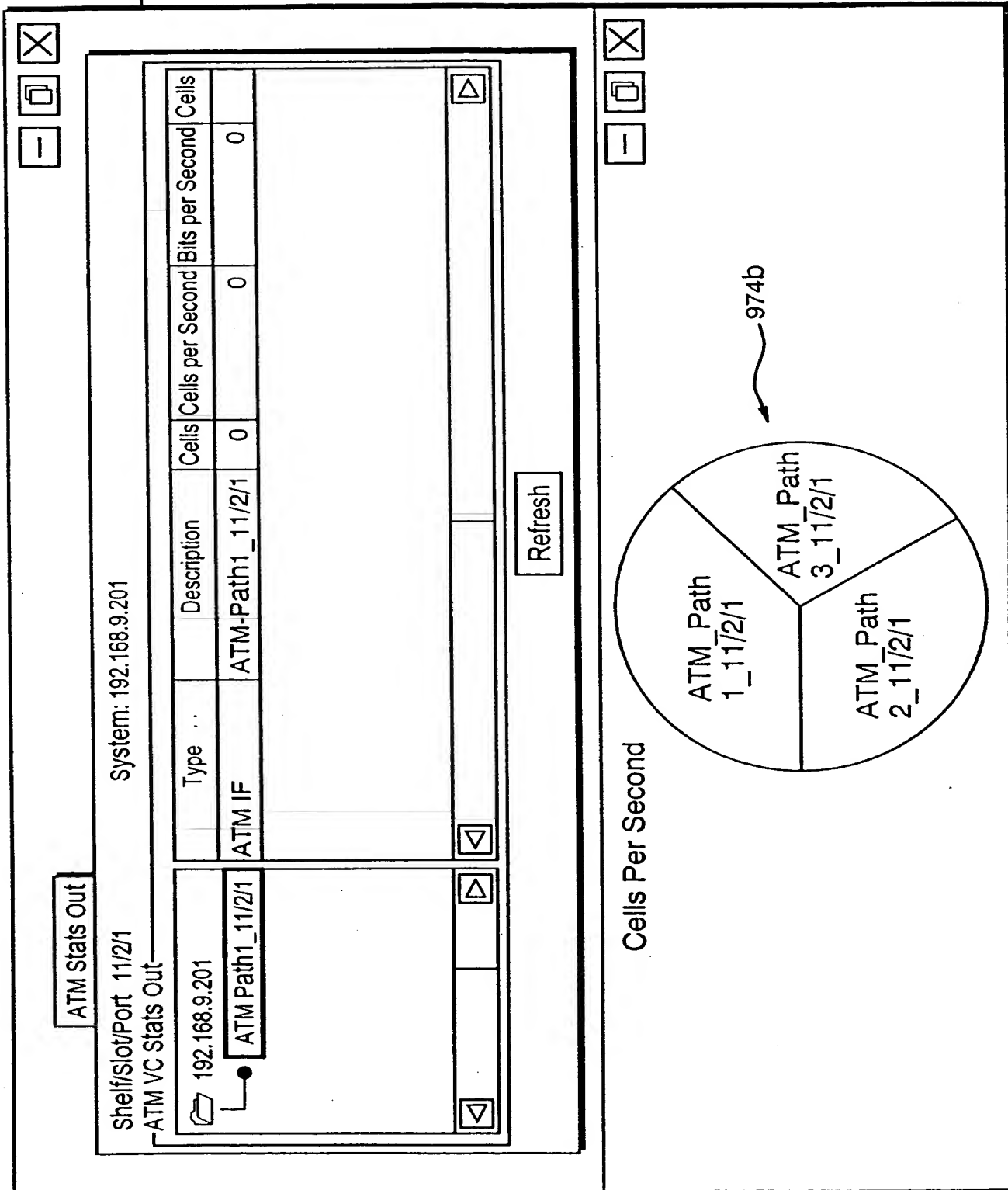


FIG. 9I

970a

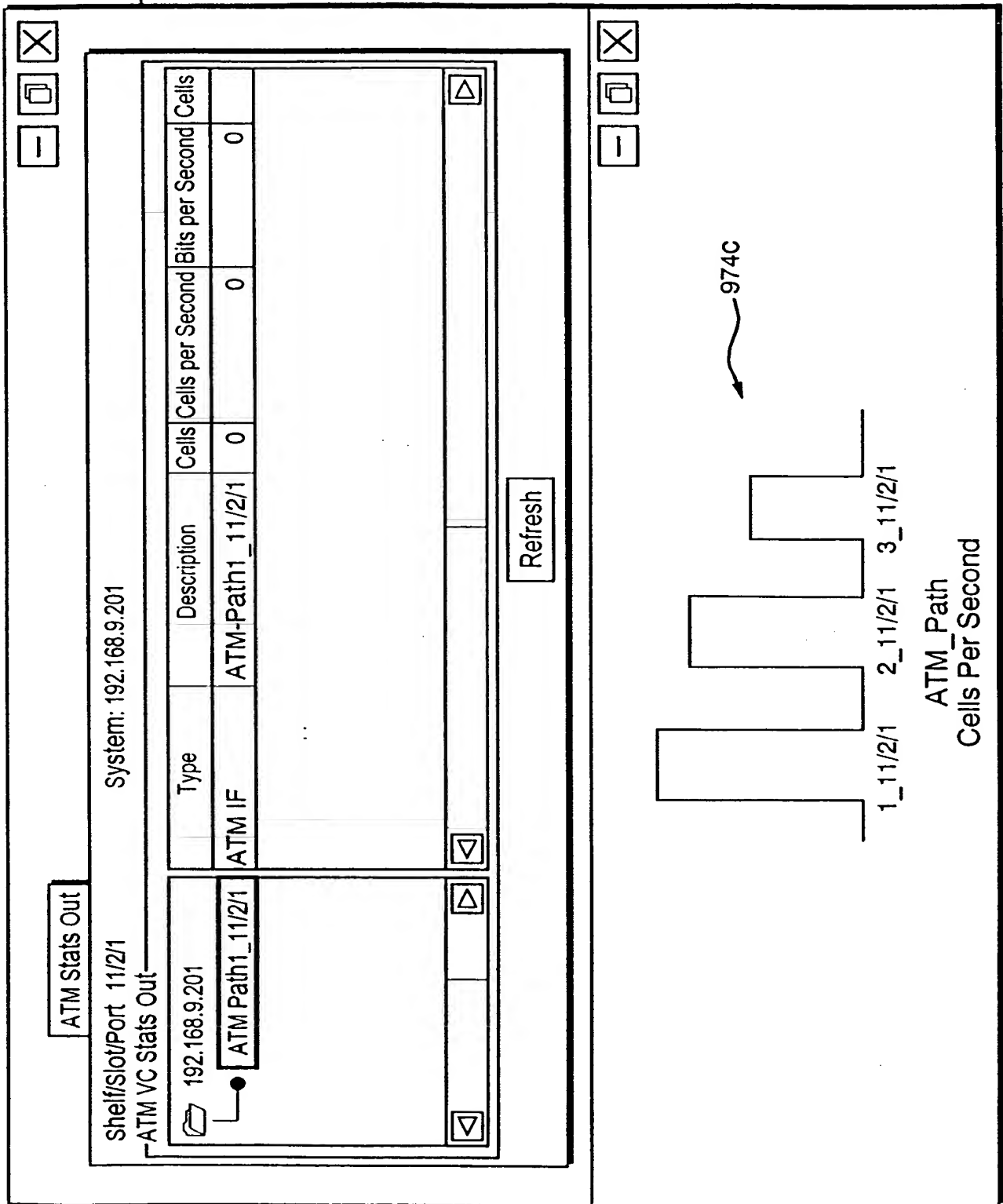


FIG. 9J

~970a

ATM Stats Out

Shelf/Slot/Port 11/2/1
System: 192.168.9.201

ATM VC Stats OUT

System: 192.168.9.201

ATM Path1_11/2/1

ATM Path_11/2/1

Type	Description	Cells	Cells per Second	Bits per Second	Cells
ATM IF	ATM-Path_11/2/1	0	0	0	0

Refresh

ATM Interface Properties - 192.168.9.202

Shelf/Slot/Port: 11/4/1 Path Name: Path2_11/2/1

ATM Properties

Name

Minimum VPI bits

Maximum VPI bits

Minimum VCI bits

Maximum VCI bits

ATM-Path_11/2/1

1

8

5

16

OK

Cancel

~974d

FIG. 9K

102220 96560

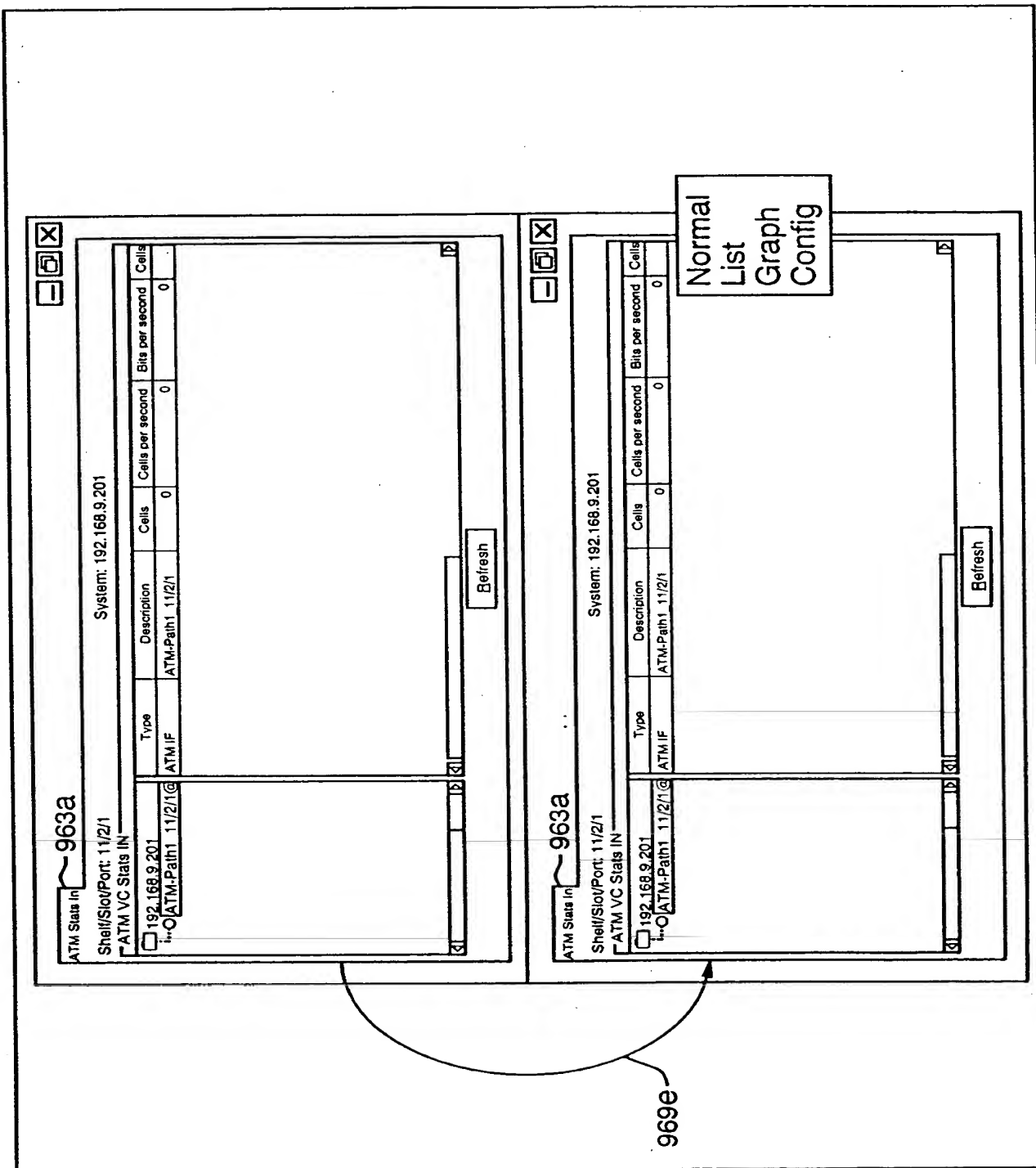
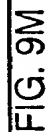
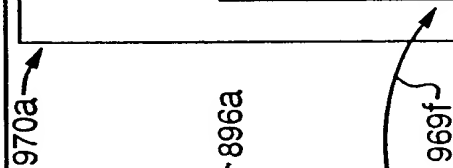


FIG. 9L



102689-67 92695260

970a

895

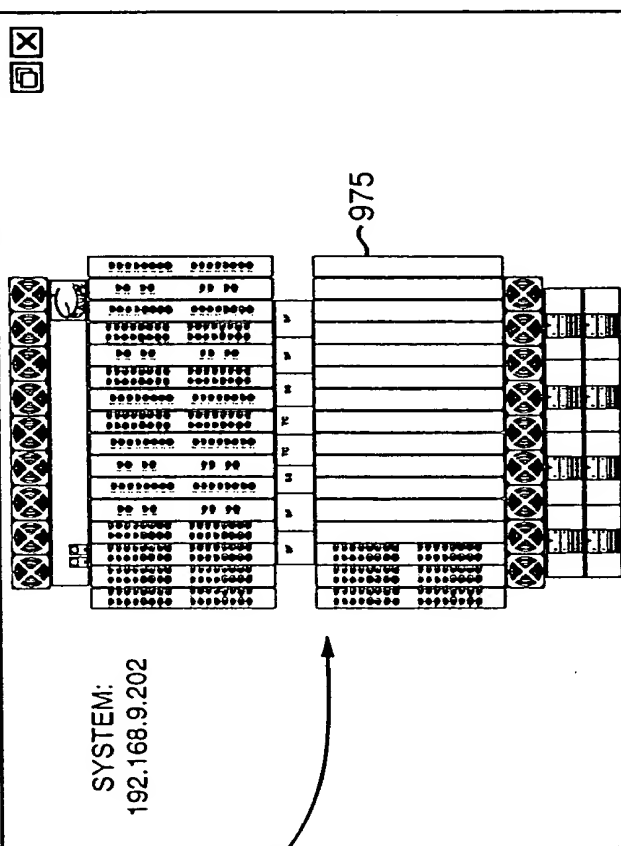
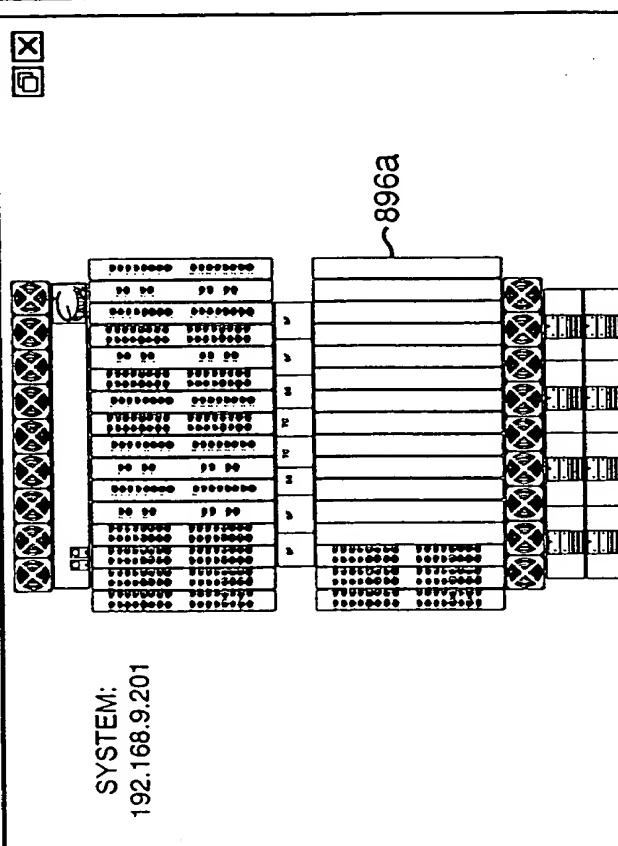
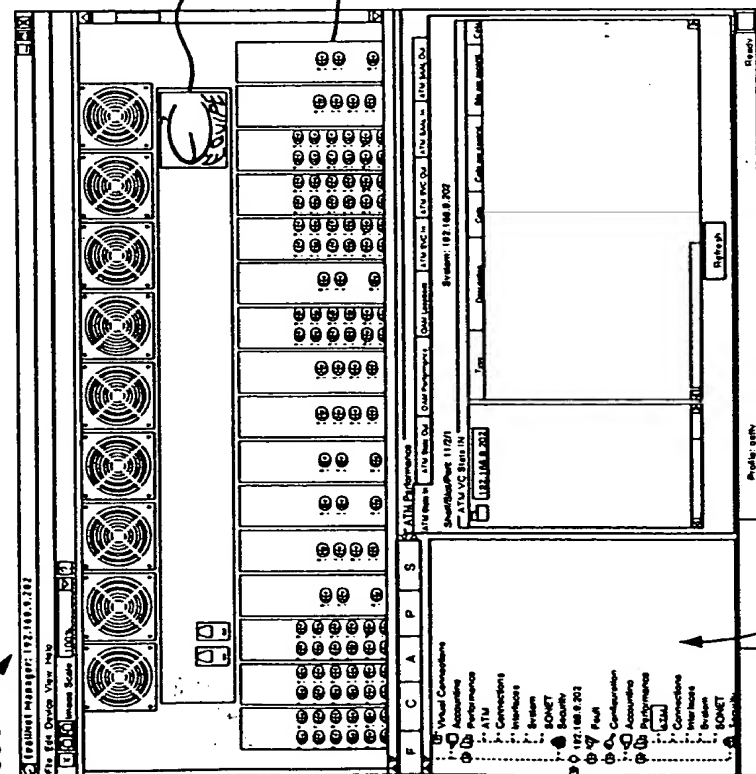


FIG. 9N

10/280 96695260

895

977b 976C

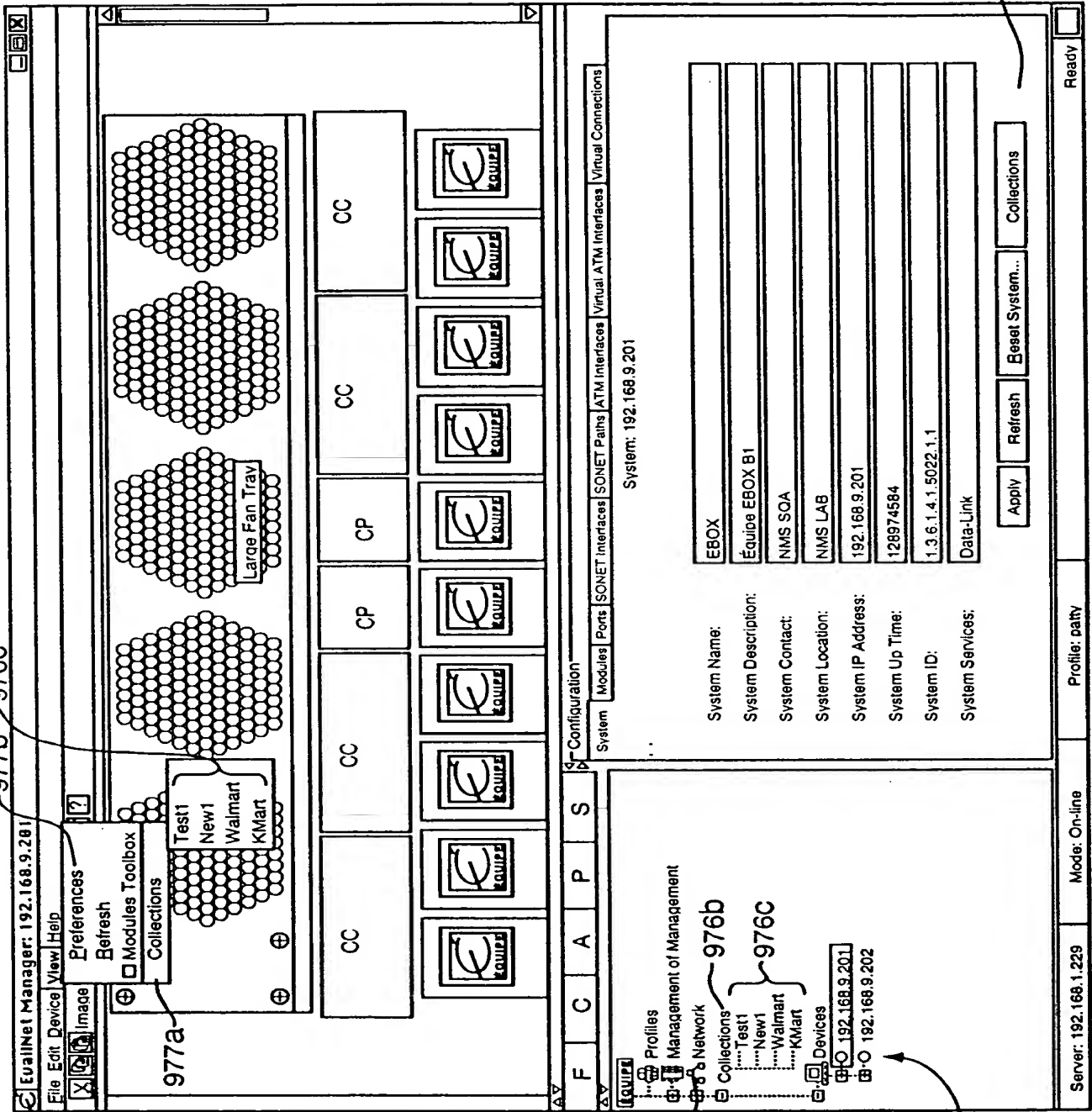


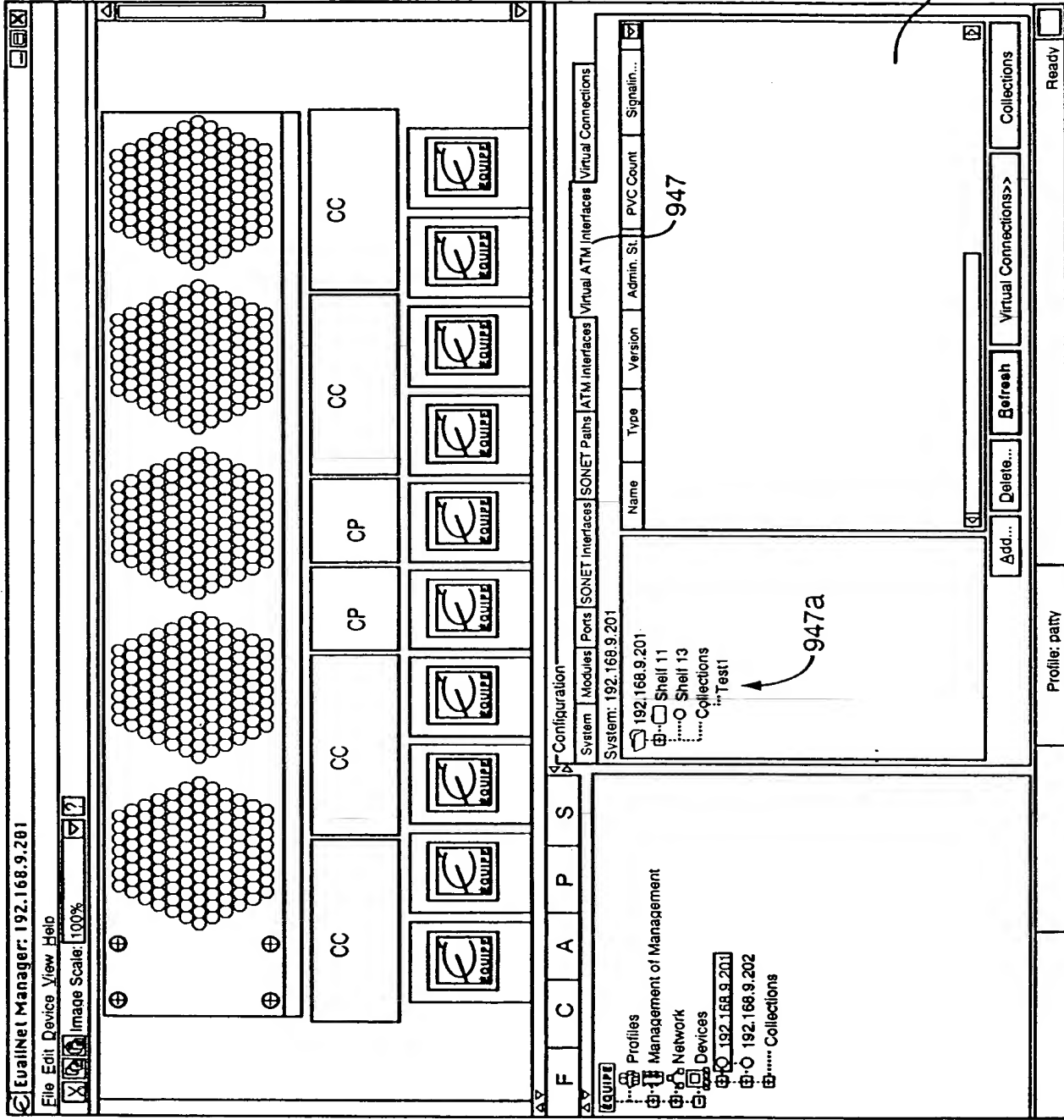
FIG. 10A



FIG. 10B

102689-67

895



897

947

947a

FIG. 10C

102689-67

895

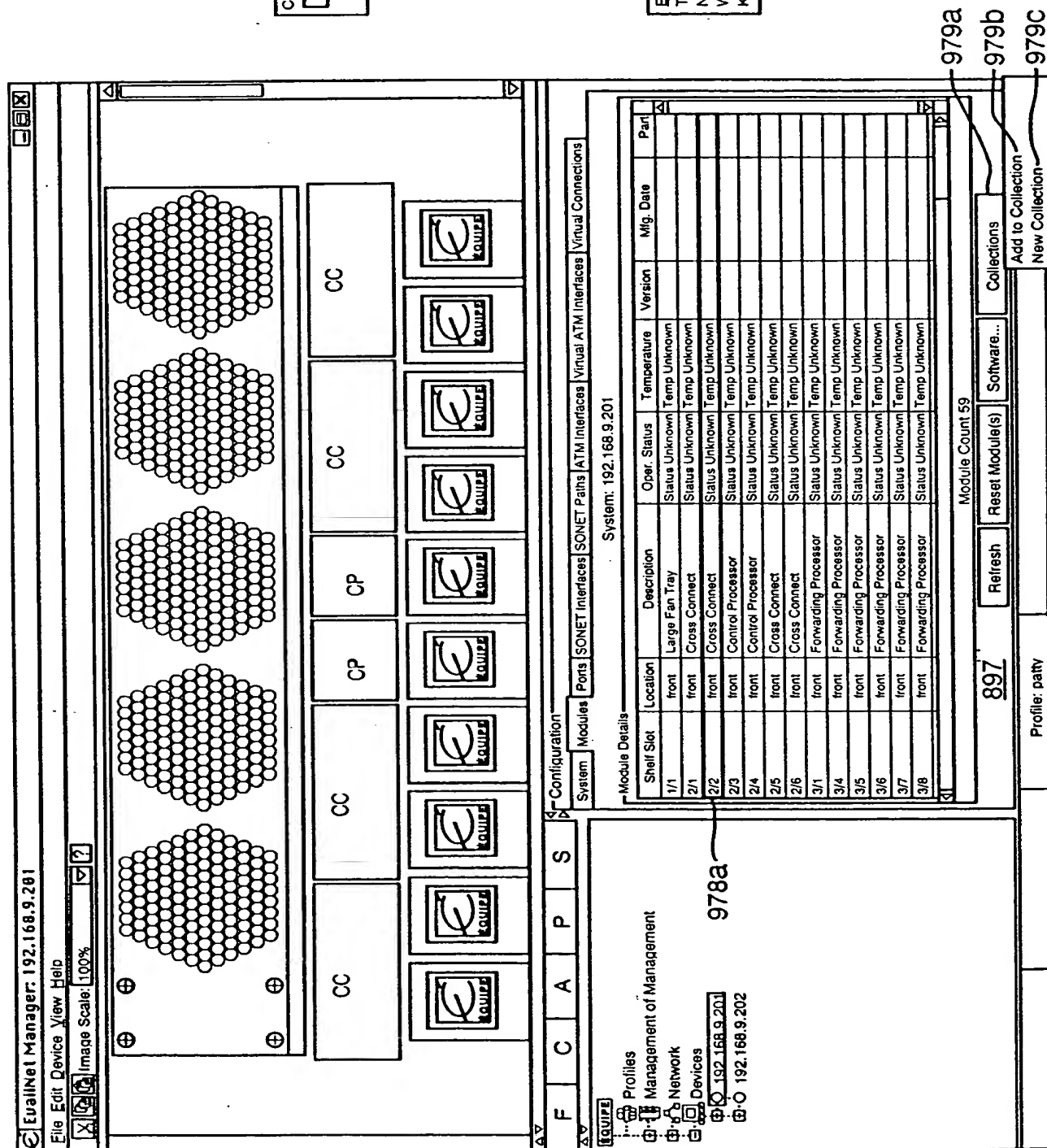


FIG. 10D

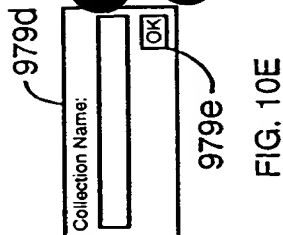


FIG. 10E

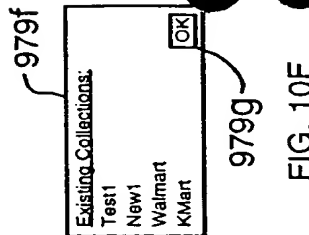


FIG. 10F

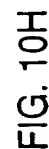


FIG. 10H



FIG. 10!

TD/2BD* 3E695460

903

Profiles

Profile Manager

System: 192.132.60.150

Name	Description	Security Level	Timeout	Primary Server	Secondary Server
Joe	Joe Whitehouse	Admin	15	192.168.1.32	192.168.1.32
Wayne	Wayne Arena	Provisioner	15	TeamServer1:192...	TeamServer2:192.168.1.32

Add

Delete...

Refresh

Copy

904

905

906

FIG. 11A

TD/280* 9E695260

907

908a

908e

908f

908d

908b

908c

General

Username: Kevin

Description: Kevin Snow user account

Group Name: Equipe

Group Level Access: ☒

Password: *****

Confirm Password: *****

Policies

908h ☒ User Cannot Change Password

908i ☐ Account Disabled

908j ☒ User Can Add Devices

908k User Session Timeout: 15 Minutes

TO
FIG. 11C

FIG. 11B

TOZ280" 92695260

FROM
FIG. 11B

Servers

Primary Server:

Primary Server Port:

Secondary Server:

Secondary Server Port:

192.168.1.220

6500

192.168.1.221

6503

Devices

Device	READ	READ/WRITE	Retry	Timeout
192.168.9.202	public	equipe	3	3
192.168.9.205	public	equipe	3	3
192.168.9.216	public	equipe	3	3

▼

908g

Add

Delete

908t

OK

Cancel

FIG. 11C

TD4280" 9E699Z60

General

Policies

Servers

Devices

Primary Server:

Primary Server Port:

Secondary Server:

Secondary Server Port:

192.168.1.220

6500

192.168.1.205

6503

908t

OK

Cancel

FIG. 11D

T02280" 9E695/60

General

Policies

Servers

Devices

Device	READ	READ/WRITE	Retry	Timeout	Trap Port
192.168.9.202	public	equipe	3	3	162
192.168.9.205	public	equipe	3	3	162
192.168.9.216	public	equipe	3	3	5012

Add

Delete

908t ~

OK

Cancel

FIG. 11E

10/28/2000 9:55:50

-

□

×

General

Policies

Servers

Devices

Username:

Description:

Customer Name:

Group Level Access:

Password:

Confirm Password:

Kevin

Kevin Snow user account

Equipe

☒

908t ~

OK

Cancel

FIG. 11F

TDZ280* 9E695Z60

General

Policies

Servers

Devices

☐ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout:

15

Minutes

908t ~

OK

Cancel

FIG. 11G

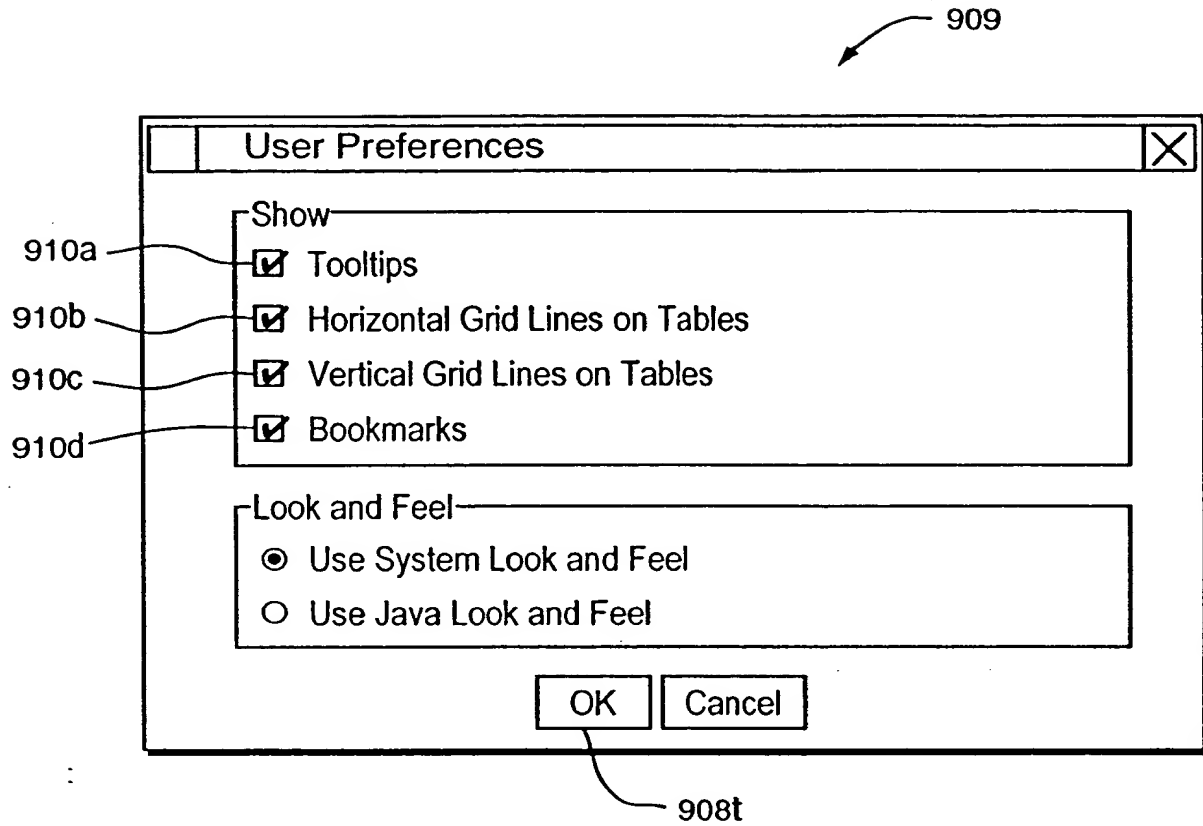


FIG. 11H

TO 2280 92695260

907

General

Username: Kevin

Description: Kevin Snow user account

Group Name: Equipe

Group Level Access: ☐

Password: *****

Confirm Password: *****

Policies

☒ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

TO
FIG. 11J

FIG. 11I

TO 2280-9E695460

FROM
FIG. 11I

Servers

Primary Server:

192.168.1.220

908l

Primary Server Port:

6500

908n

Secondary Server:

192.168.1.221

908m

Secondary Server Port:

6503

908o

Devices

Device	READ	READ/WRITE	Retry	Timeout
192.168.9.202	public	equipe	3	3
19 Group List				
19 Walmart-East				
Walmart-West				
Kmart 1				
Sears-Northeast				

1000a

1000

Add

Delete

FIG. 11J

TD2280* 9E695460

EvailNet Manager: SONET Path Configuration - 11/8/5

System: 192.168.9.201

SONET Line

Slot 8 Port 5 Type OC12

SONET Path Wizard

☒ Configure a single concatenated path (STS-12c)

☐ Configure

☐ Custom Configuration

4

..

▽

STS-3c

▽

paths

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/8/5	Path1_11/...	1	STS-12c	Termin.	ATM		

1002e Modify

Graphical Representation

Position

Width

1

STS-12c

1002d

OK

Cancel

Group Name:

1002b

1002c

▽

FIG. 11K

102290* 9E695/60

1002

EvaiNet Manager: SONET Path Configuration - 11/8/5

System: 192.168.9.201

SONET Line

Slot Port Type

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)

☒ **Configure**

☐ Custom Configuration

Path Table

SONET Line	Path Name	Path Posit.	Path Wi.	Path Ty.	Servi.	Ingress Conne.	Egress Conne.
11/8/5	Path1_11/8/5	1	STS-3c	Termin.	ATM		
11/8/5	Path2_11/8/5	4	STS-3c	Termin.	ATM		
11/8/5	Path3_11/8/5	7	STS-3c	Termin.	ATM		
11/8/5	Path4_11/8/5	10	STS-3c	Termin.	ATM		

1002a

1002e

Modify

Graphical Representation

Position

Width

1

4

7

10

STS-3c

STS-3c

STS-3c

STS-3c

Group Name:

1002b

1002c

1002d

OK

Cancel

FIG. 11L

T02200* 92695/60

EvaiNet Manager: SONET Path Configuration - 11/8/5																																									
System: 192.168.9.201																																									
SONET Line		Slot	8	Port	5	Type	OC12	Graphical Representation																																	
SONET Path Wizard <input type="radio"/> Configure a single concatenated path (STS-12c) <input type="radio"/> Configure 4 paths <input checked="" type="radio"/> Custom Configuration								Position	Width																																
Functions Available SONET Paths <div style="border: 1px solid black; height: 100px; margin: 5px;"></div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Add> <Remove <<Clear </div>								1	STS-3c																																
Allocated SONET Paths <div style="border: 1px solid black; height: 100px; margin: 5px;"></div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> STS-3c STS-3c STS-3 STS-3 </div>								4	STS-3c																																
Path Table <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SONET Line</th> <th>Path Name</th> <th>Path Position</th> <th>Path Width</th> <th>Path Type</th> <th>Service</th> <th>Ingress Co...</th> <th>Egress Co...</th> </tr> </thead> <tbody> <tr> <td>11/8/5</td> <td>Path1_11/8/5</td> <td>1</td> <td>STS-3c</td> <td>Terminated</td> <td>ATM</td> <td></td> <td></td> </tr> <tr> <td>11/8/5</td> <td>Path2_11/8/5</td> <td>4</td> <td>STS-3c</td> <td>Terminated</td> <td>ATM</td> <td></td> <td></td> </tr> <tr> <td>11/8/5</td> <td>Path3_11/8/5</td> <td>7</td> <td></td> <td>Terminated</td> <td>ATM</td> <td></td> <td></td> </tr> </tbody> </table>										SONET Line	Path Name	Path Position	Path Width	Path Type	Service	Ingress Co...	Egress Co...	11/8/5	Path1_11/8/5	1	STS-3c	Terminated	ATM			11/8/5	Path2_11/8/5	4	STS-3c	Terminated	ATM			11/8/5	Path3_11/8/5	7		Terminated	ATM		
SONET Line	Path Name	Path Position	Path Width	Path Type	Service	Ingress Co...	Egress Co...																																		
11/8/5	Path1_11/8/5	1	STS-3c	Terminated	ATM																																				
11/8/5	Path2_11/8/5	4	STS-3c	Terminated	ATM																																				
11/8/5	Path3_11/8/5	7		Terminated	ATM																																				
1002a		1002e				1002d		Group Name																																	
		1002b				1002c																																			

FIG. 11M

MANAGED RESOURCE GROUP TABLE 1008

LID	MANAGED DEVICE PID	GROUP NAME
1145	1	WALMART-EAST
⋮	⋮	⋮

FIG. 11N

MANAGED RESOURCE TABLE 1007

LID	RESOURCE LID	MANAGE RESOURCE GROUP LID
4443	901	1145
⋮	⋮	⋮

FIG. 11O

1006

EvailNet Manager: 192.168.9.201-Virtual Connection Wizard

Source: 192.168.9.201 Destination: 192.168.9.201

End Point 1

192.168.9.201

- Shelf 11
 - Slot 1
 - Slot 2
 - Slot 3
 - Slot 4
 - Port 1
 - Port 2
 - ATM-Path2_11/4/2

End Point 1

192.168.9.201

- Shelf 11
 - Shelf 13

Connection Parameters

Connection Name:

Admin Status: 1006b

Group Name:

End Point 1 Parameters:

VPI: ☐ Use Any VPI Value

VCI: ☐ Use Any VCI Value

Transmit Traffic Descriptor:

Receive Traffic Descriptor:

☐ Use the same Traffic Descriptor for both Transmit and Receive

End Point 2 Parameters:

VPI: ☐ Use Any VPI Value

VCI: ☐ Use Any VCI Value

Transmit Traffic Descriptor:

Receive Traffic Descriptor:

☐ Use the same Traffic Descriptor for both Transmit and Receive

<Back Finish Cancel

1006c

FIG. 11Q

USER TABLE 1010

1010a	LID	1010b USERNAME	1010c PASSWORD	1010d GROUP LEVEL ACCESS	1010e
	2012	DAVE	MARBLE	PROVISIONER	
	⋮	⋮	⋮		

FIG. 11R

USER MANAGED DEVICE TABLE 1012

1012a	LID	1012b USER LID	1012c HOST LID	1012d RETRY	1012e TIMEOUT
	7892	2012	9046		
	⋮	⋮	⋮	⋮	⋮

FIG. 11S

10/23/2009 9:55:46

ADMINISTRATION MANAGED DEVICE TABLE 1014

LID	HOST ADDRESS	PORT ADDRESS	RETRY	TIMEOUT	ADMIN. PASSWORD	PROV. PASSWORD	VIEWER PASSWORD
9046	192.168.9.202	1521			TEAM 1	TEAM 2	TEAM 3
.
.
.

FIG. 11T

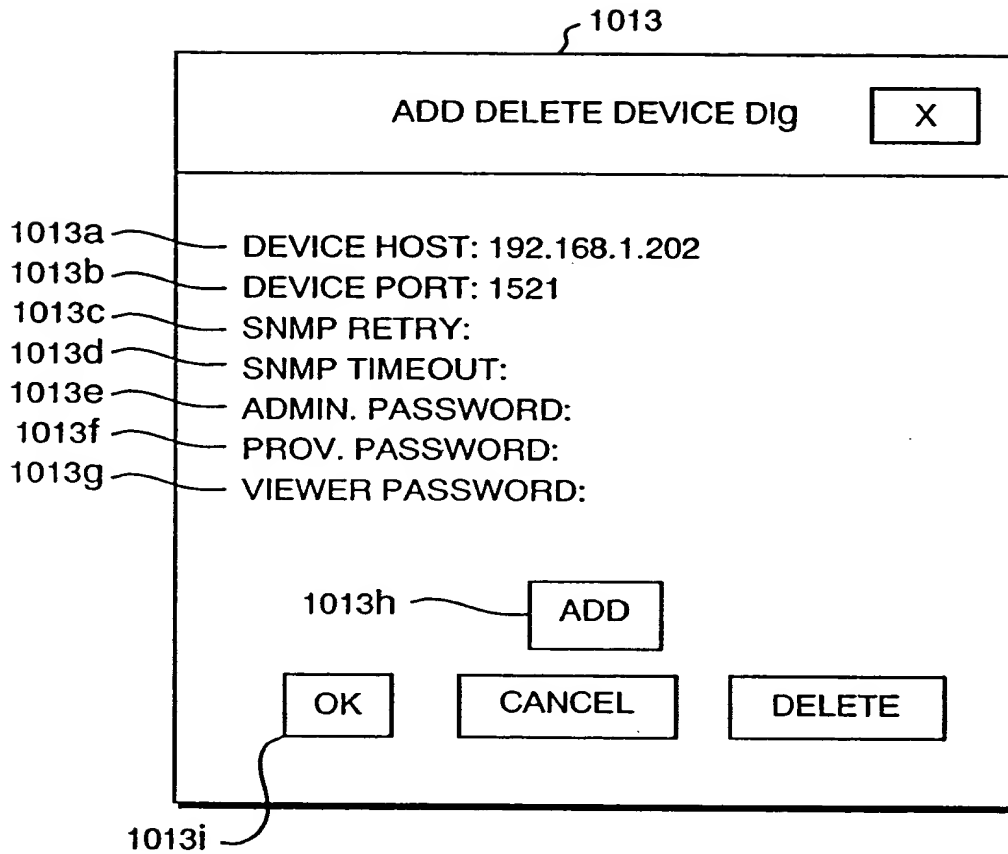


FIG. 11U

USER RESOURCE GROUP MAP TABLE 1016

1016a

1016b

1016c

LID	USER LID	USER RESOURCE GROUP LID
8086	2012	1024
⋮	⋮	⋮

FIG. 11V

USER RESOURCE GROUP TABLE 1018

1018a

1018b

1018c

1018d

LID	HOST LID	GROUP NAME
1024	9046	WALMART-EAST
⋮	⋮	⋮

FIG. 11W

102689-67

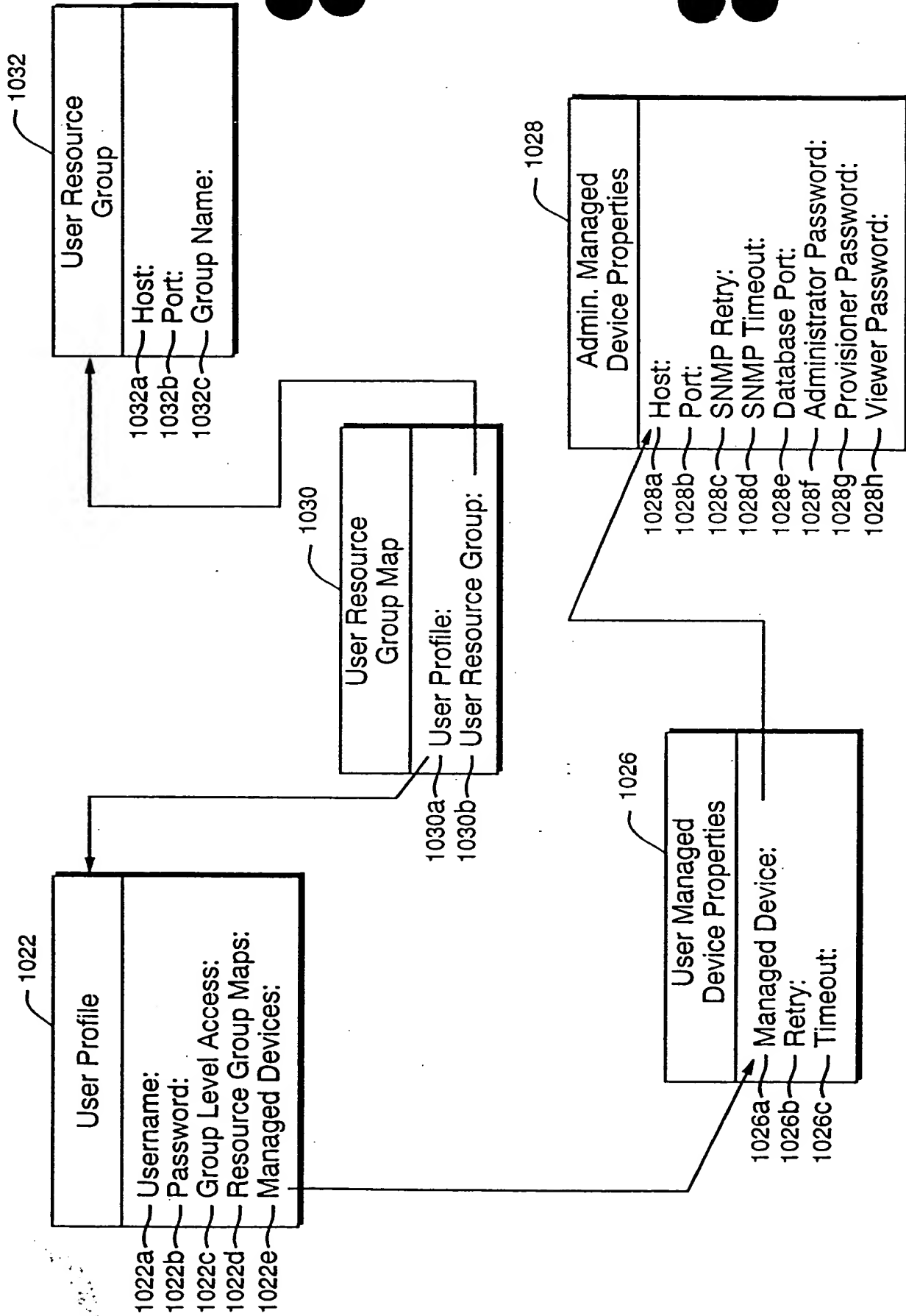


FIG. 11X

TOP SECRET 326935/60

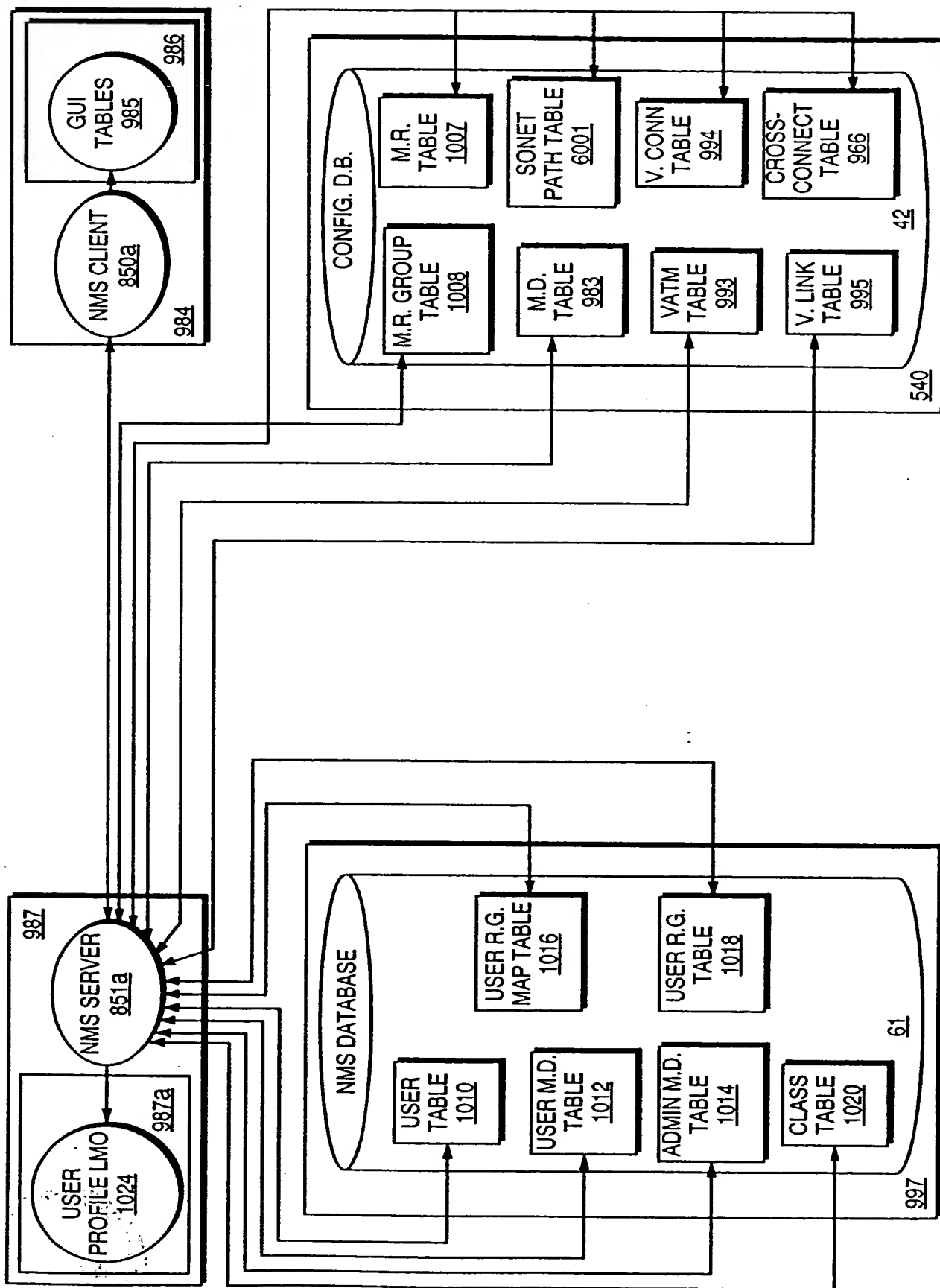


FIG. 11Y

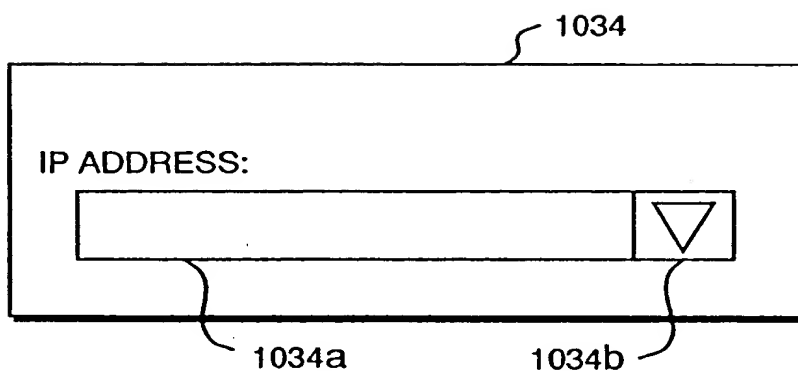


FIG. 11Z

102689-67

FIG. 12A

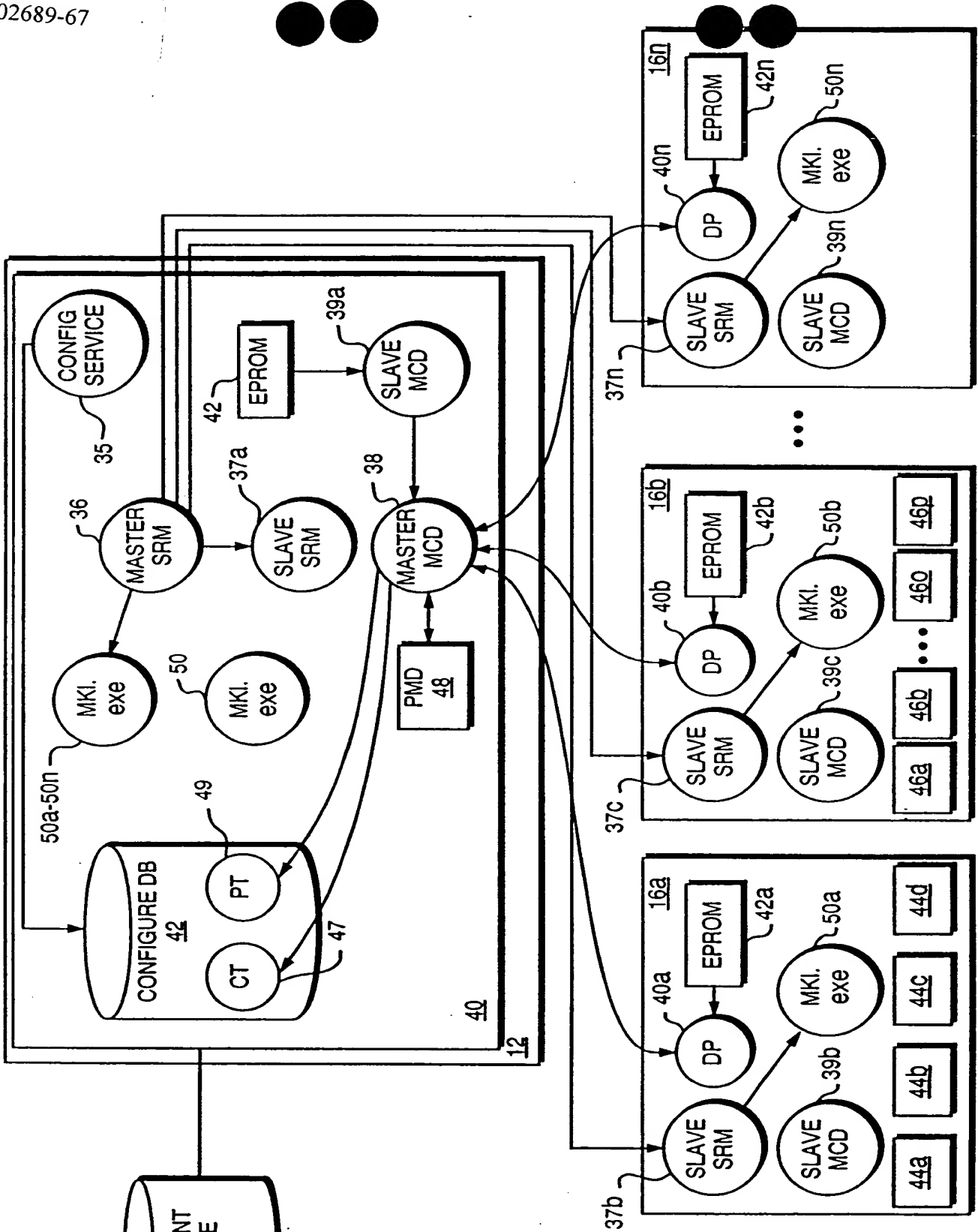


FIG. 12A

CARD TABLE 47

	PID	CWD TYPE	VERSION NO.	SLOT NO.	...
16a	500	0XF002	3	1	
16b	501	0XF002	4	2	
	⋮	⋮	⋮	⋮	⋮
16e	505	0X6002	1	5	
	⋮	⋮	⋮	⋮	⋮
16n	513	0XF002	1	12	
	⋮	⋮	⋮	⋮	⋮

FIG. 12B

095593E-082701
T04280* 9E69E260

PORT TABLE 49

	PID	PORT TYPE	VERSION NO.	SLOT NO.	...
44a	1500	00620	1	1	
44b	1501	00620	1	1	
44c	1502	00620	1	1	
44d	1503	00620	1	1	
44a	1504	00820			
	⋮	⋮	⋮	⋮	⋮
46a	1600	00620	1	8	
	⋮	⋮	⋮	⋮	⋮

FIG. 12C

10/280* 22695/60

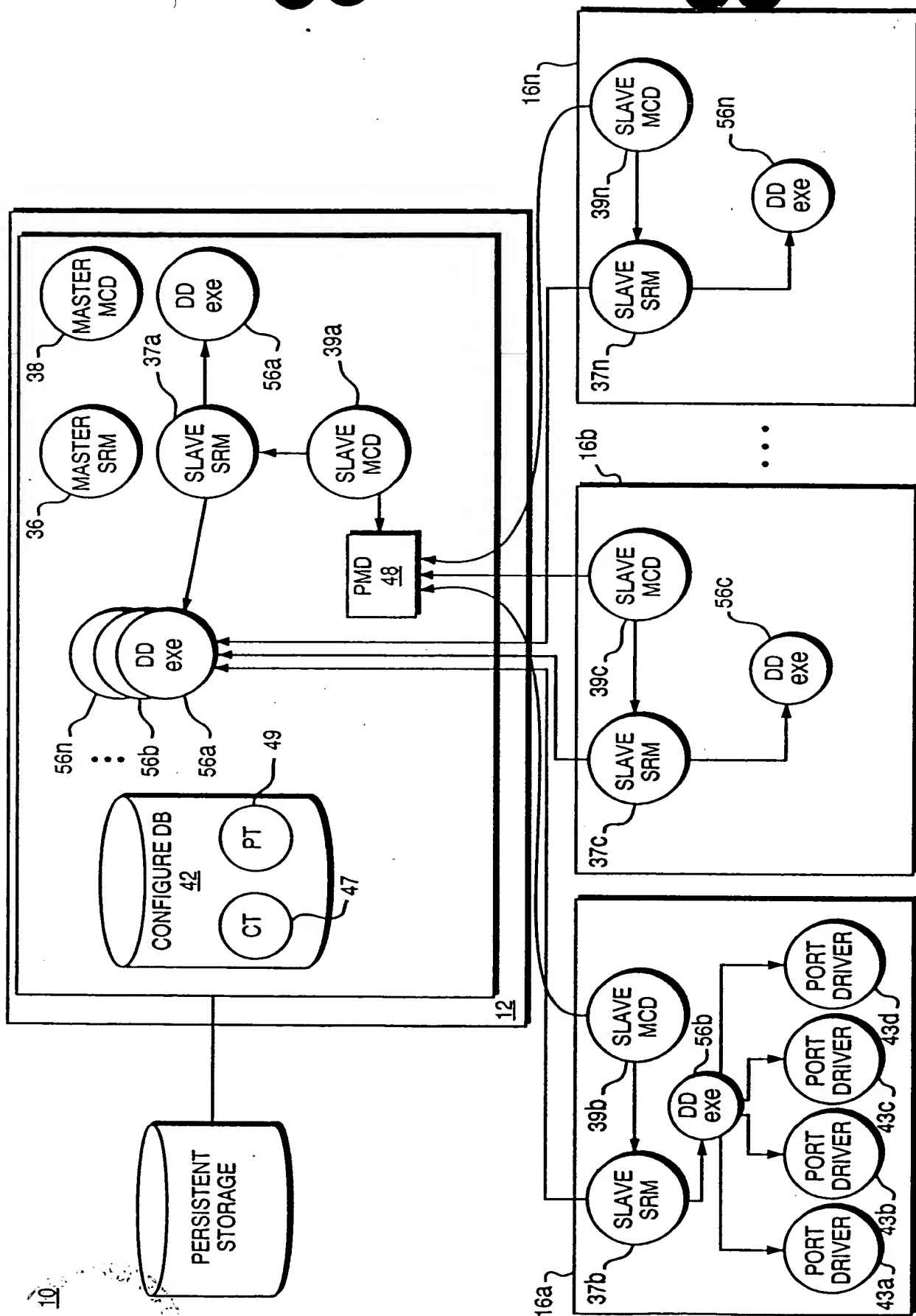


FIG. 13A

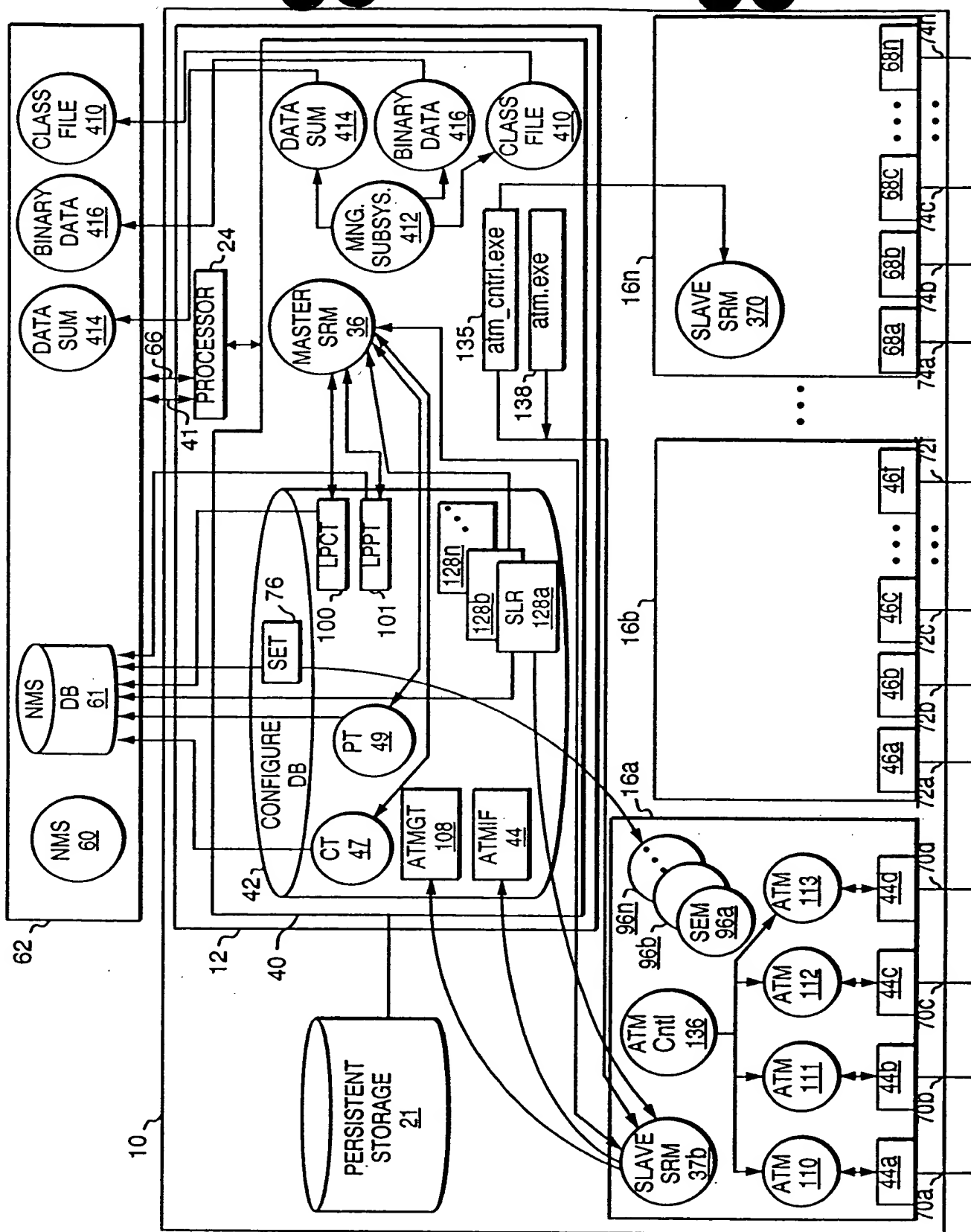


FIG. 13B

FIG. 13C

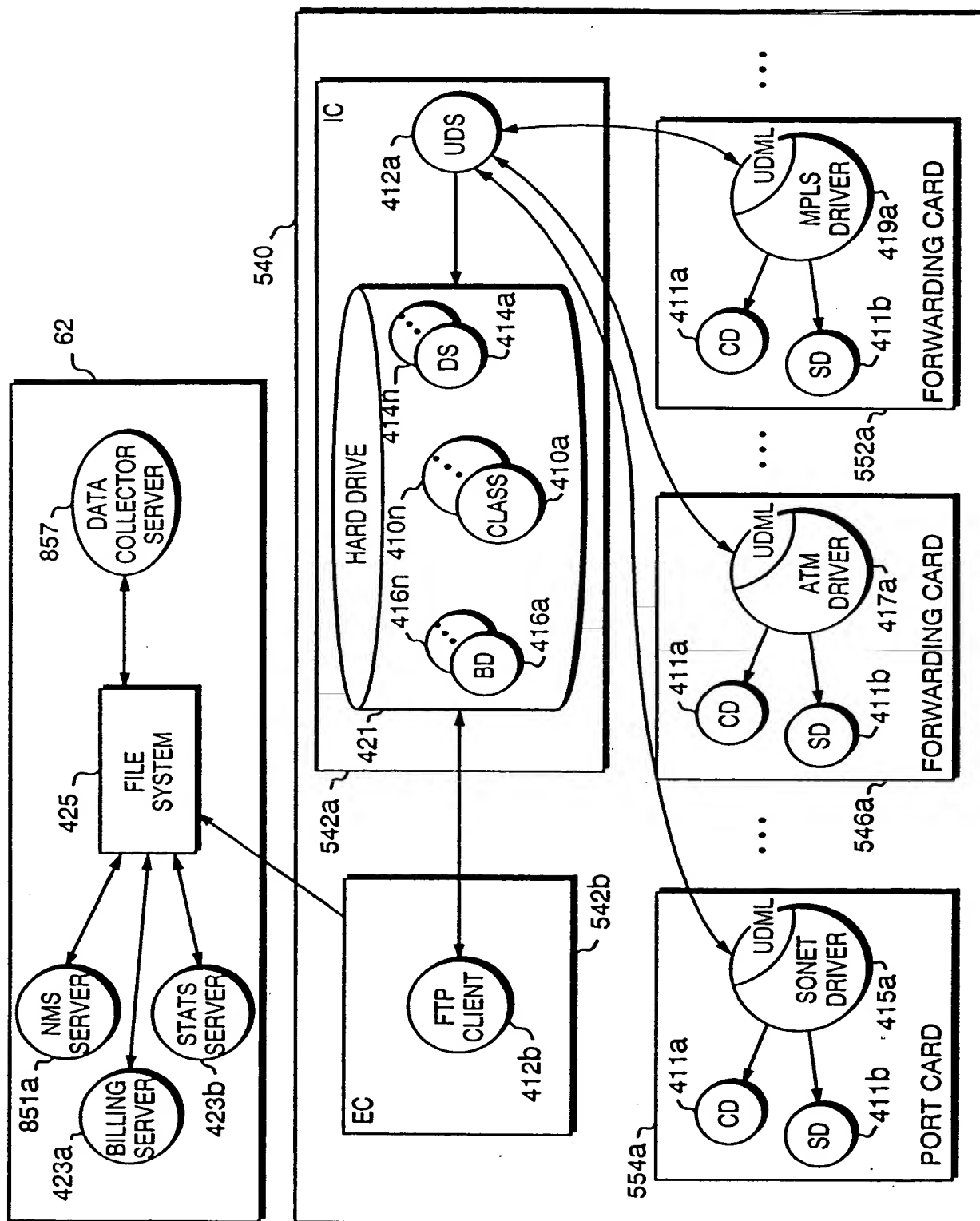


FIG. 13C

FIG. 13D

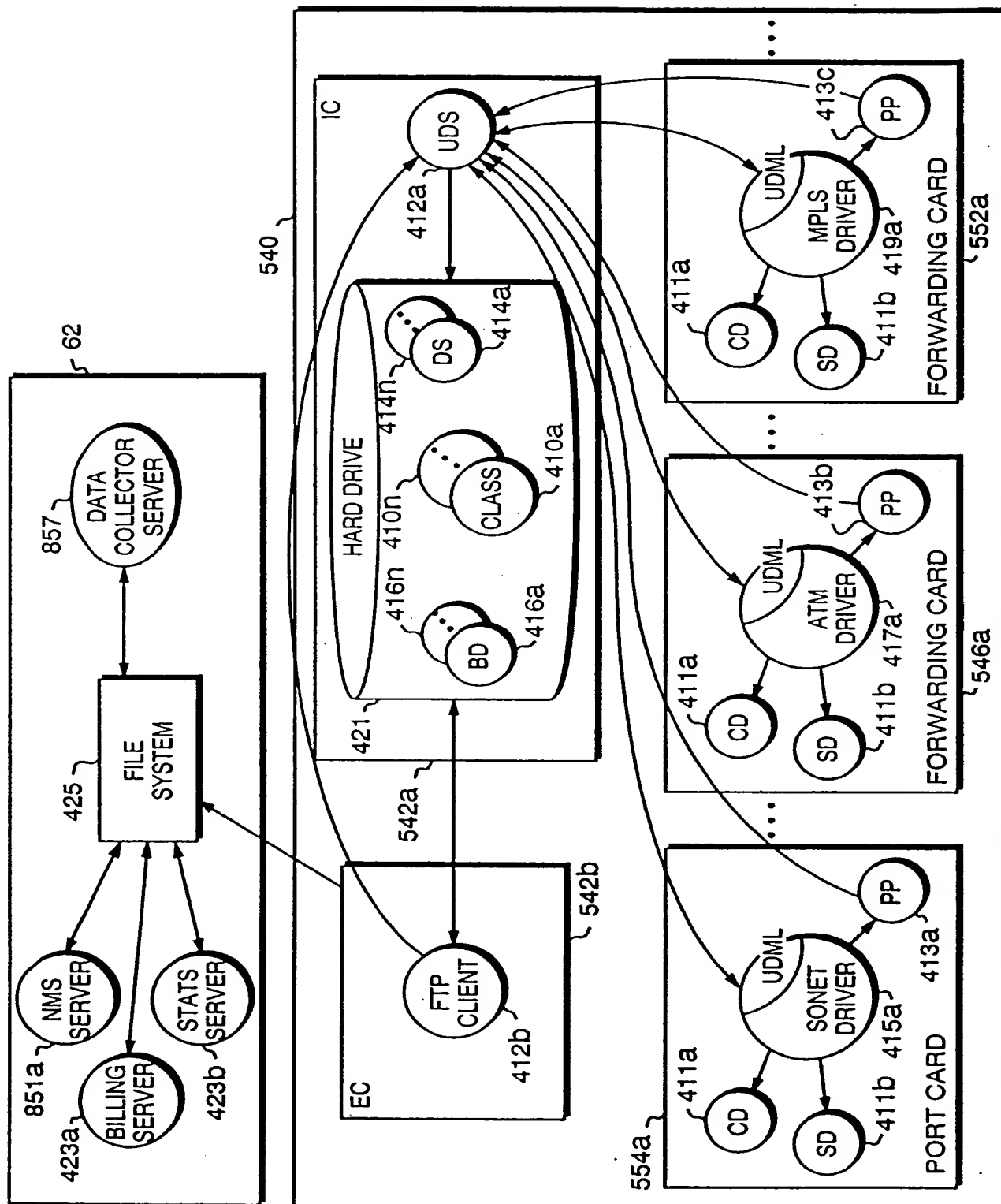


FIG. 13D

SERVICE ENDPOINT TABLE 76

	SERVICE ENDPOINT #	PORT PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮
	⋮	⋮
	⋮	⋮

FIG. 14A

LOGICAL TO PHYSICAL CARD TABLE 100

	98	102	104
	LID	PRIMARY PID	BACK-UP PID
106	30	500	513
109	31	501	513
	⋮	⋮	⋮
	⋮	⋮	⋮
	⋮	⋮	⋮

FIG. 14B

LOGICAL TO PHYSICAL PORT TABLE 101

	98	102	104
	LID	PRIMARY PID	BACK-UP PID
107	40	1500	1600
	⋮	⋮	⋮
	⋮	⋮	⋮
	⋮	⋮	⋮

FIG. 14C

ATM GROUP TABLE 108

GROUP #	CARD LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 14D

ATM INTERFACE TABLE 114

ATM IF	ATM GROUP	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
12	3	10	
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮

170

FIG. 14E

SOFTWARE LOAD RECORD 128a

130	CONTROL SHIM	LID	132
134	atm-cntl.exe	30	

FIG. 14F

102689-67

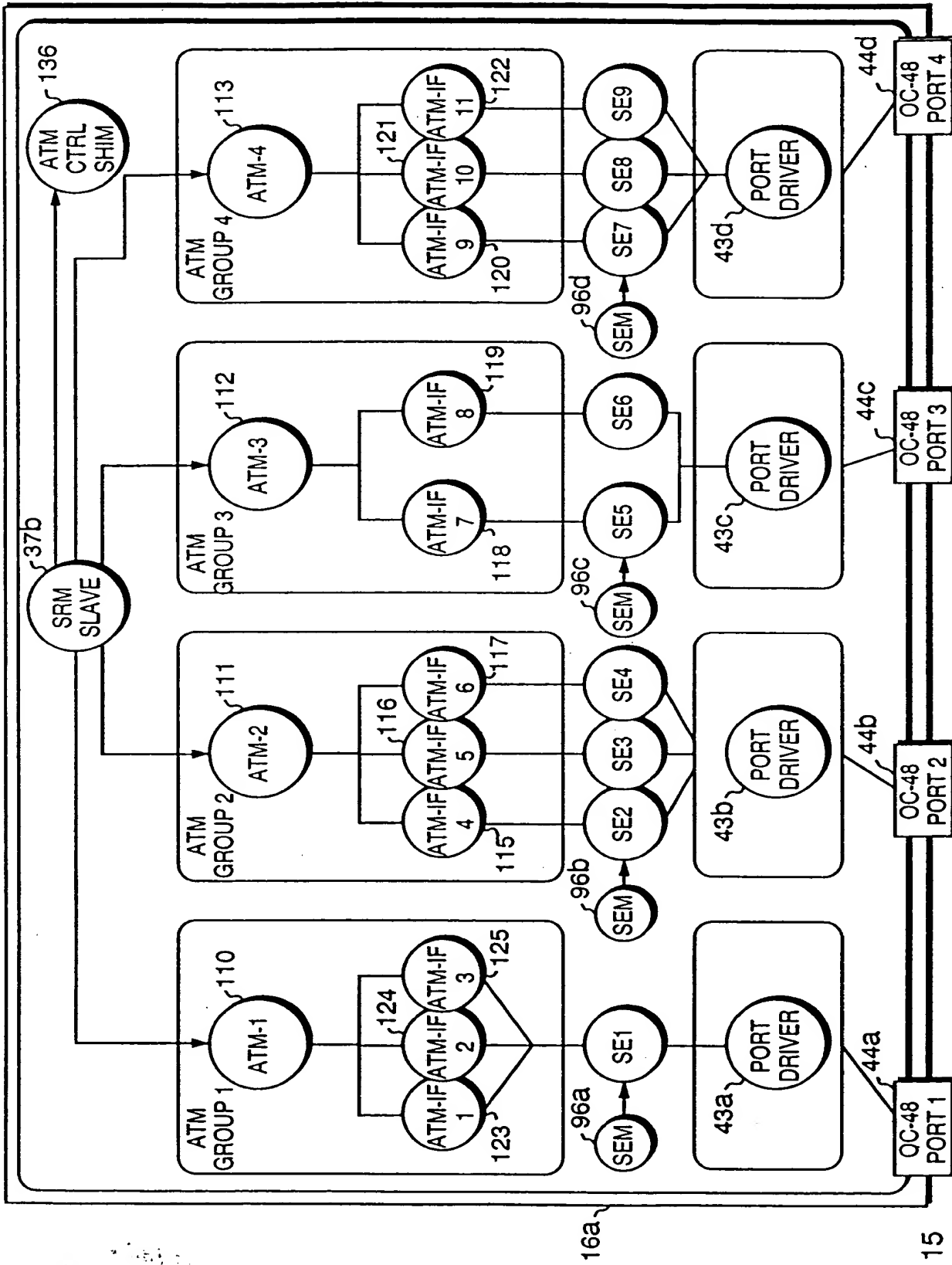


FIG. 15

FIG. 16A

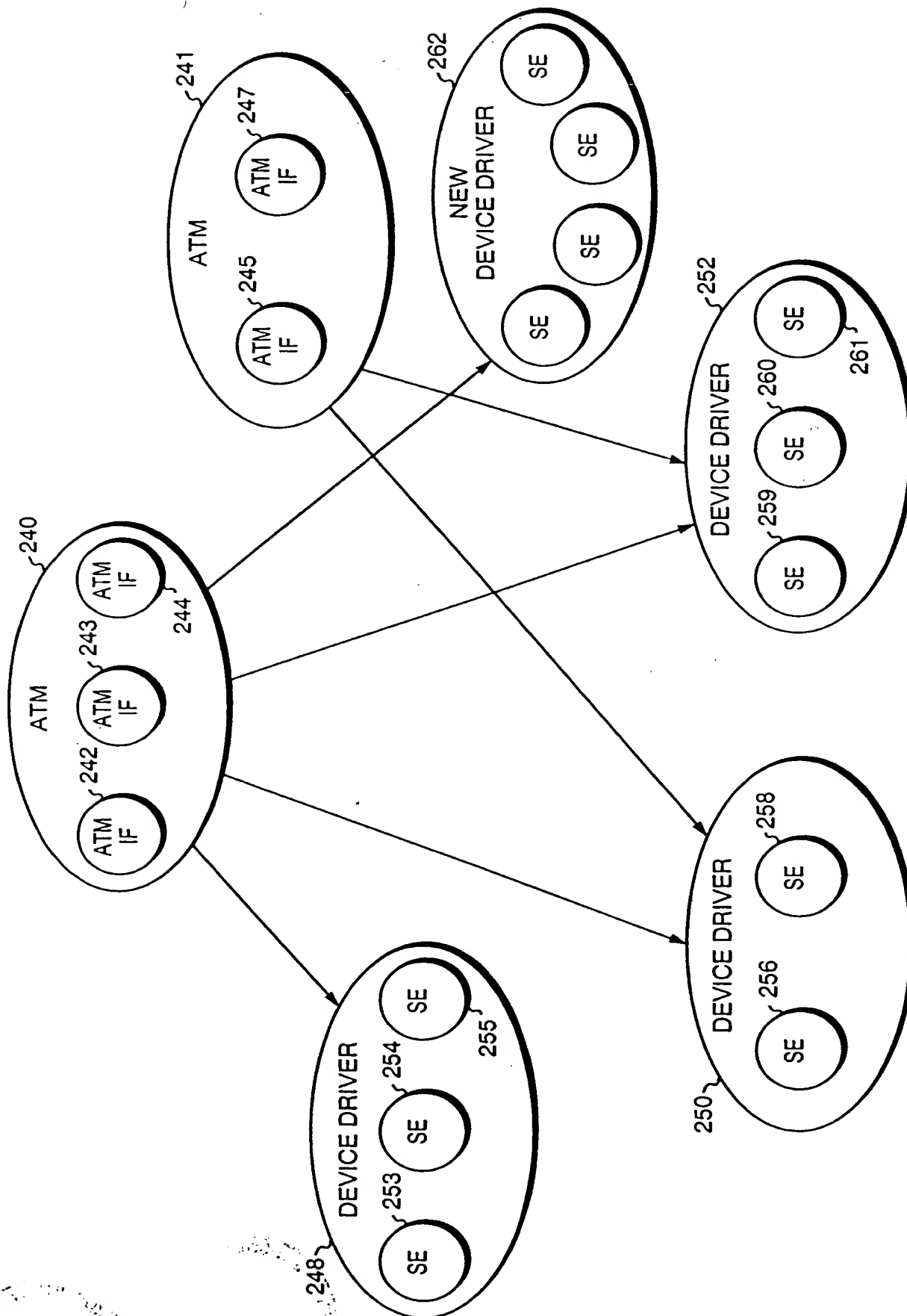


FIG. 16A

10/22/2000 9:26:35 AM

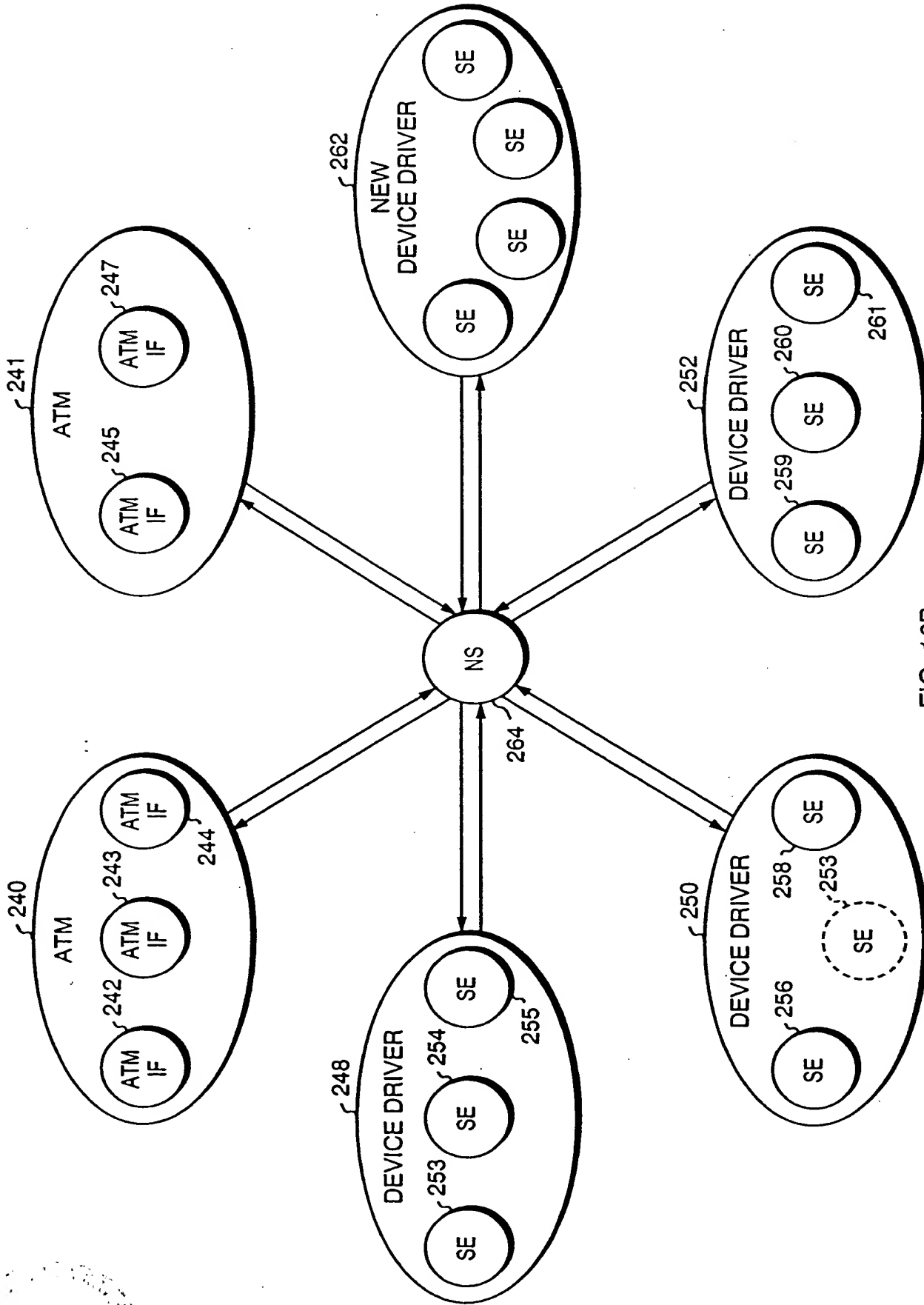


FIG. 16B

FIG. 16C

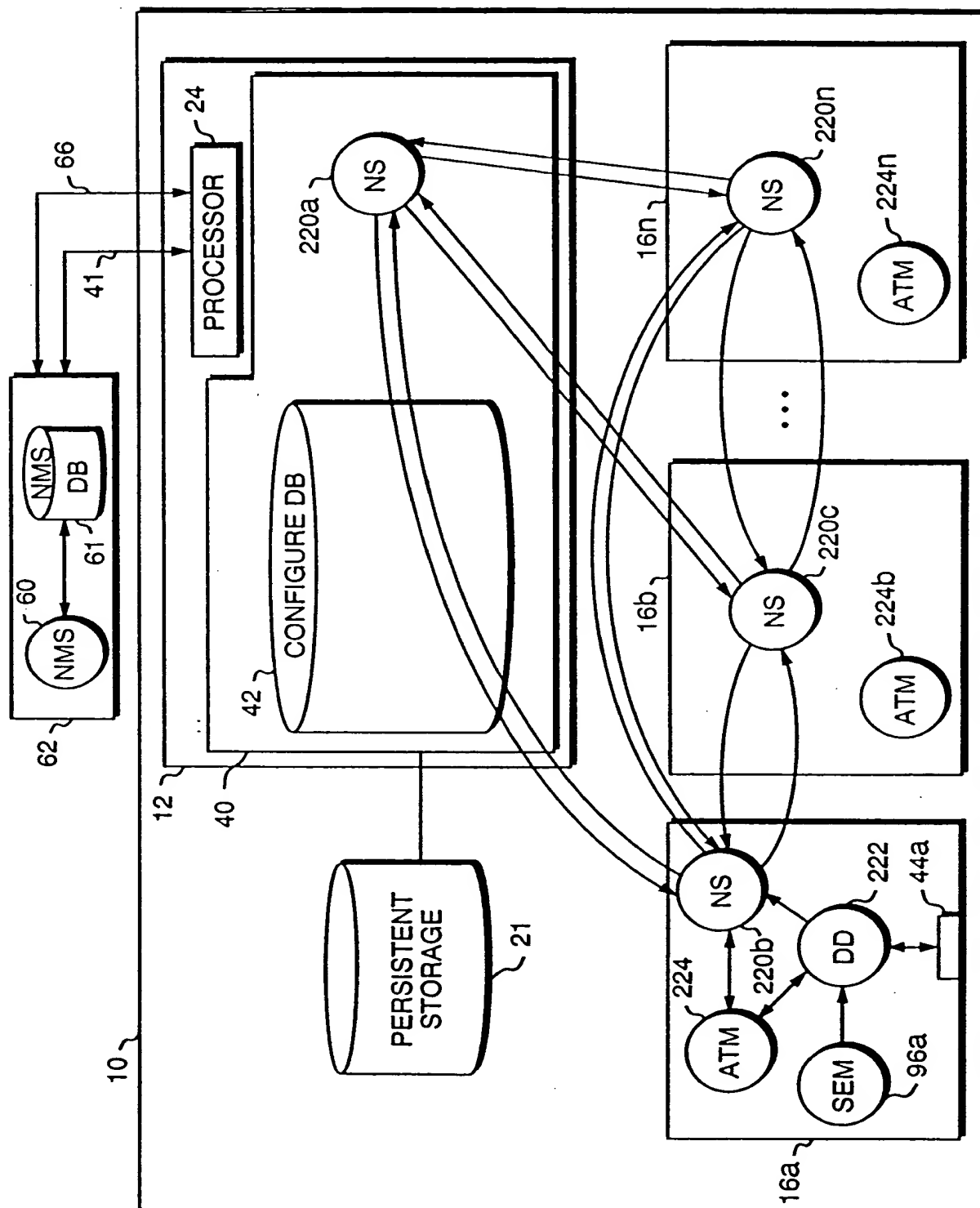


FIG. 16C

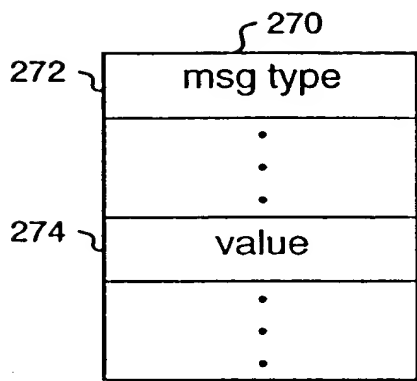


FIG. 16D

102689-67

102689-67

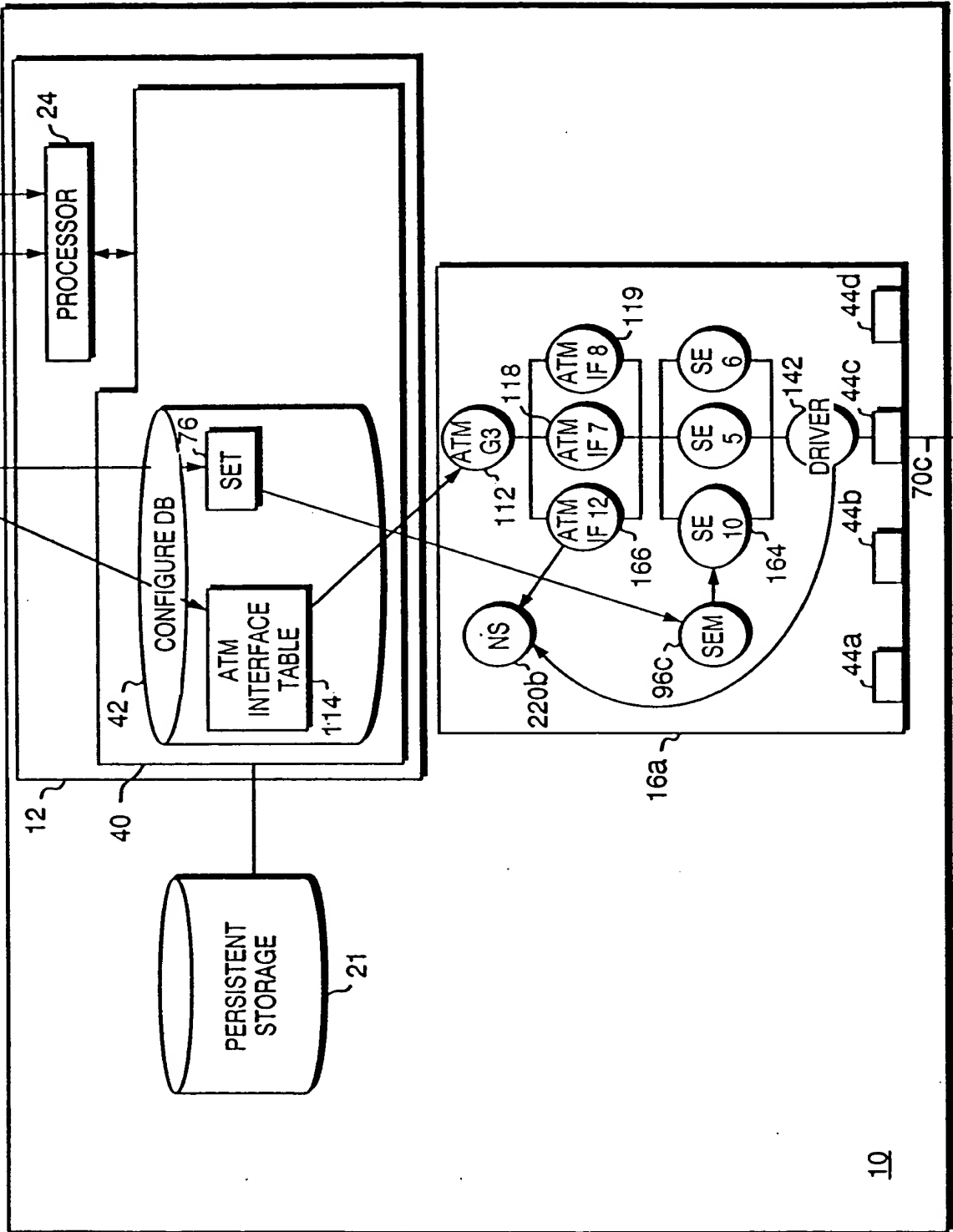


FIG. 17

FOI/2009-000000000000000000

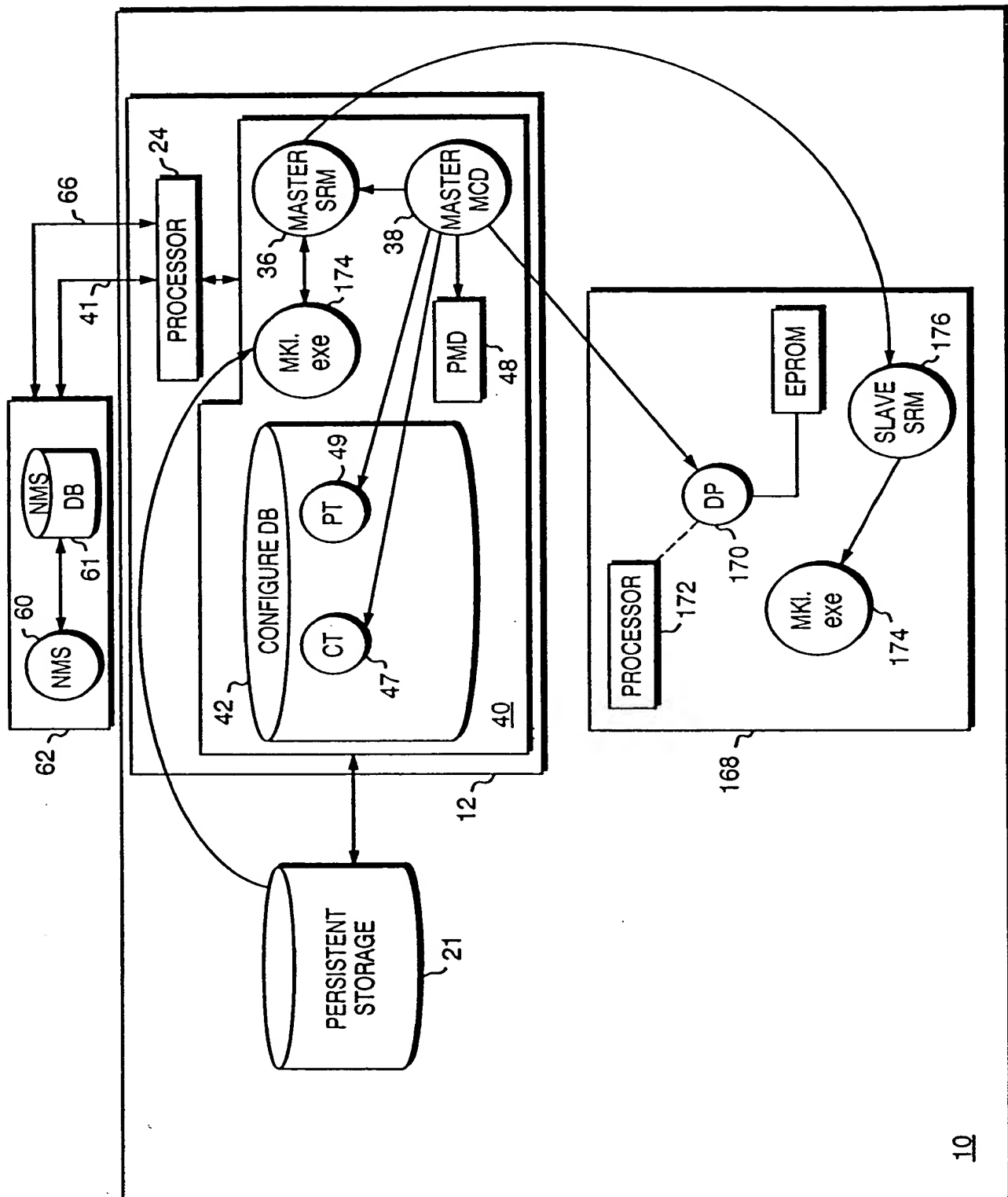


FIG. 18

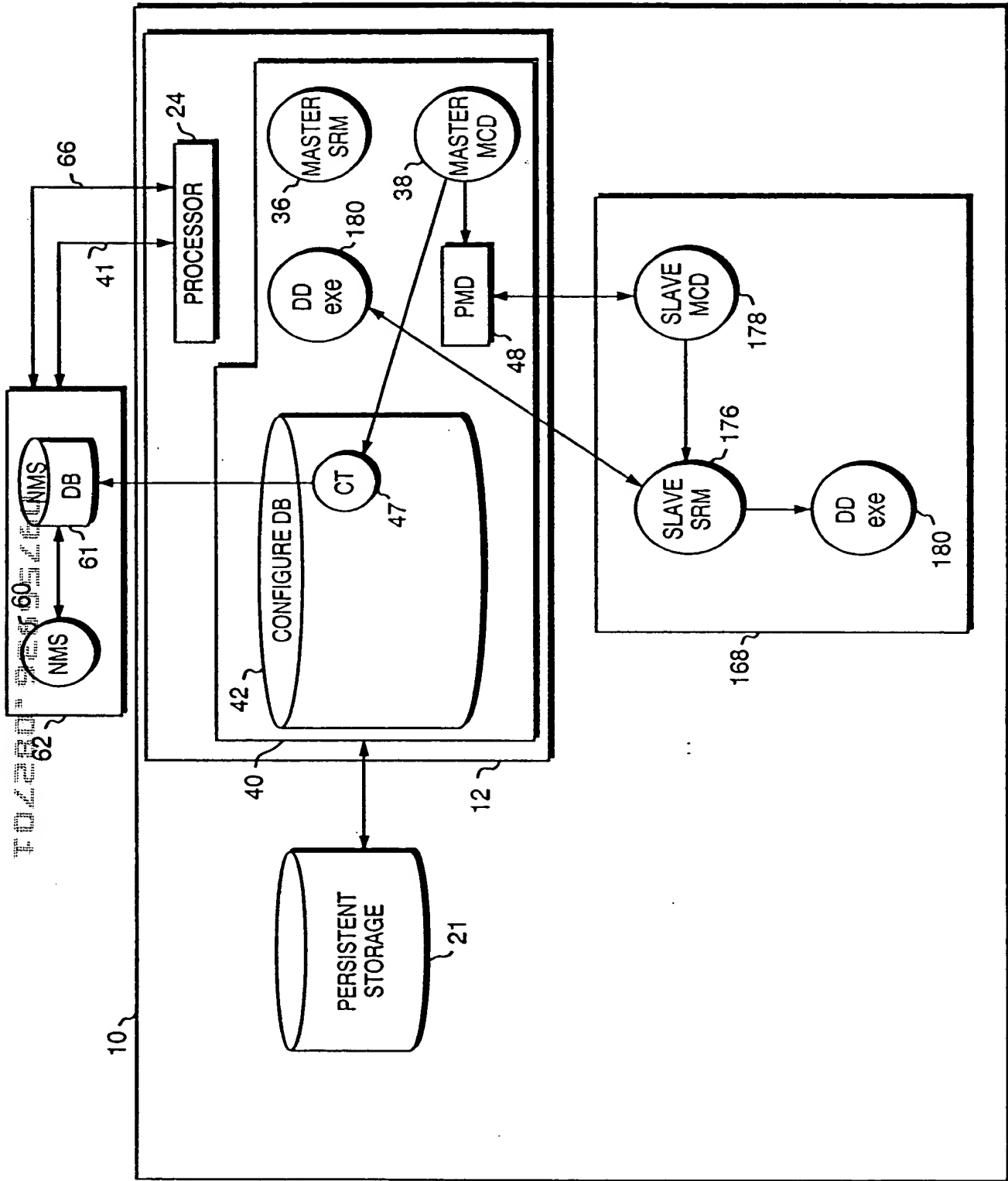


FIG. 19

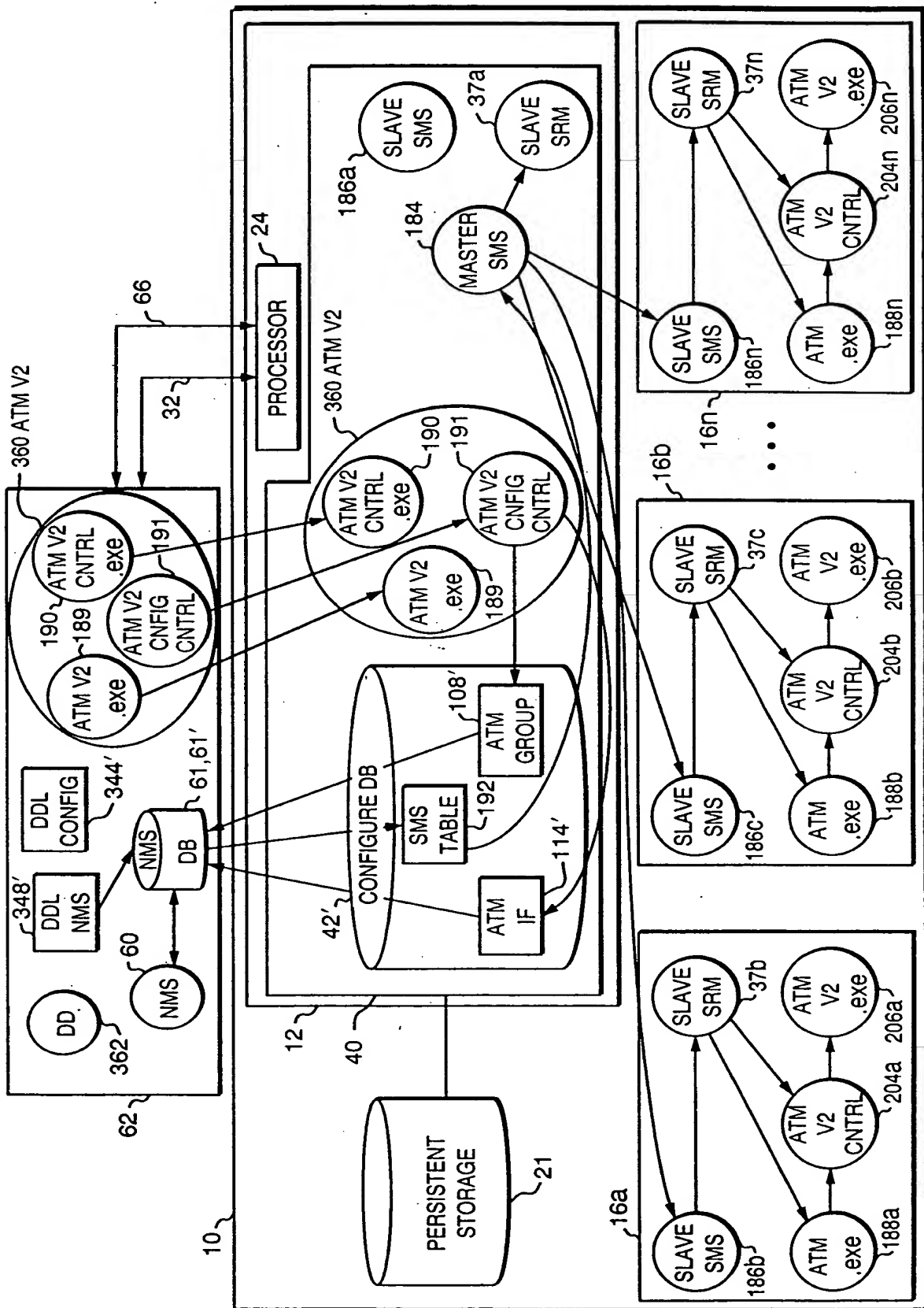


FIG. 20



194

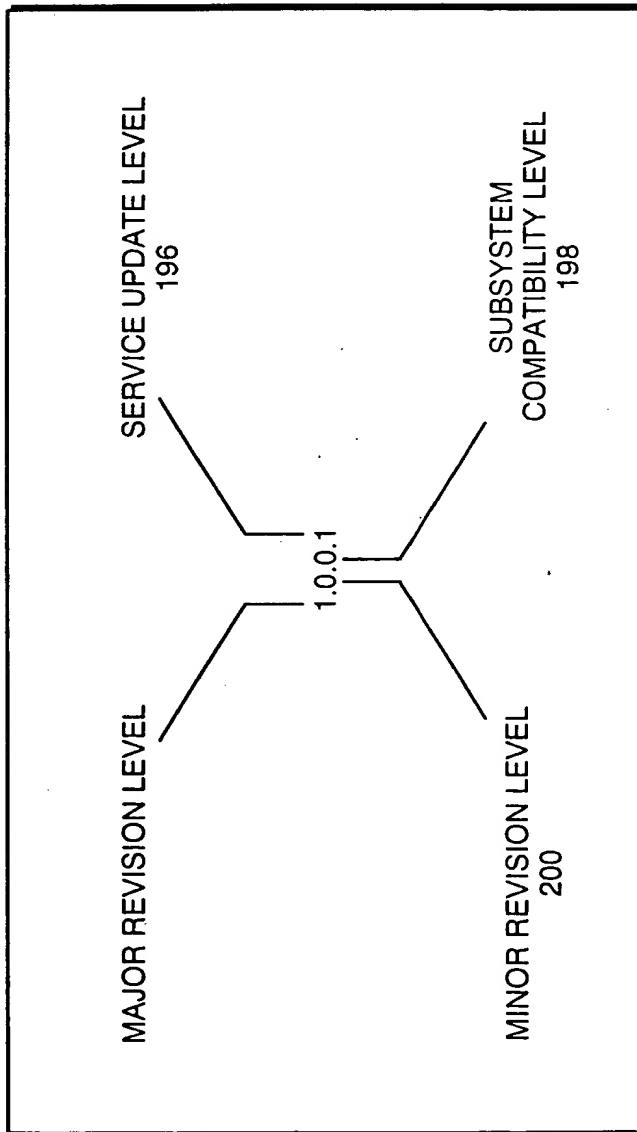


FIG. 21

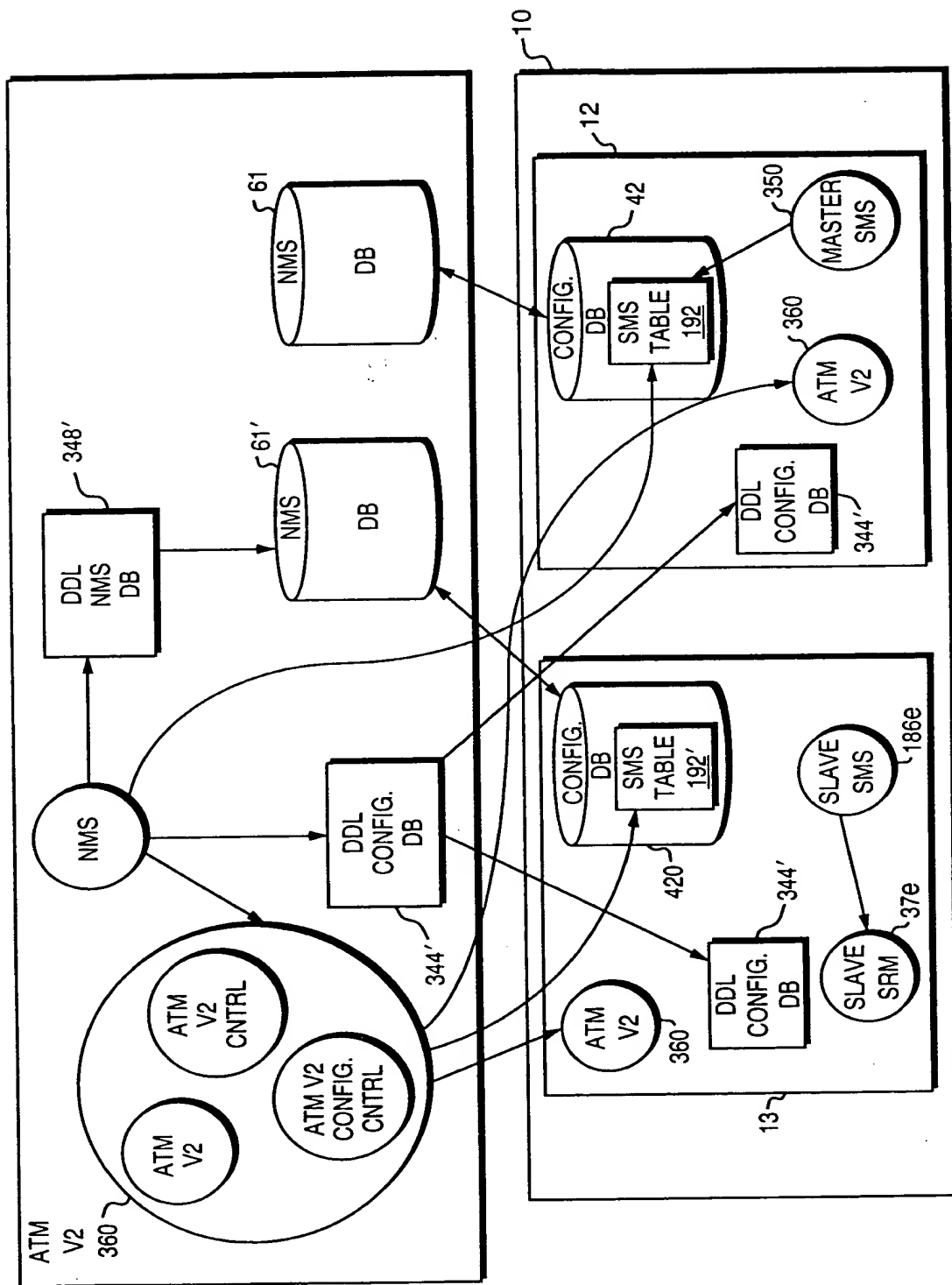


FIG. 22

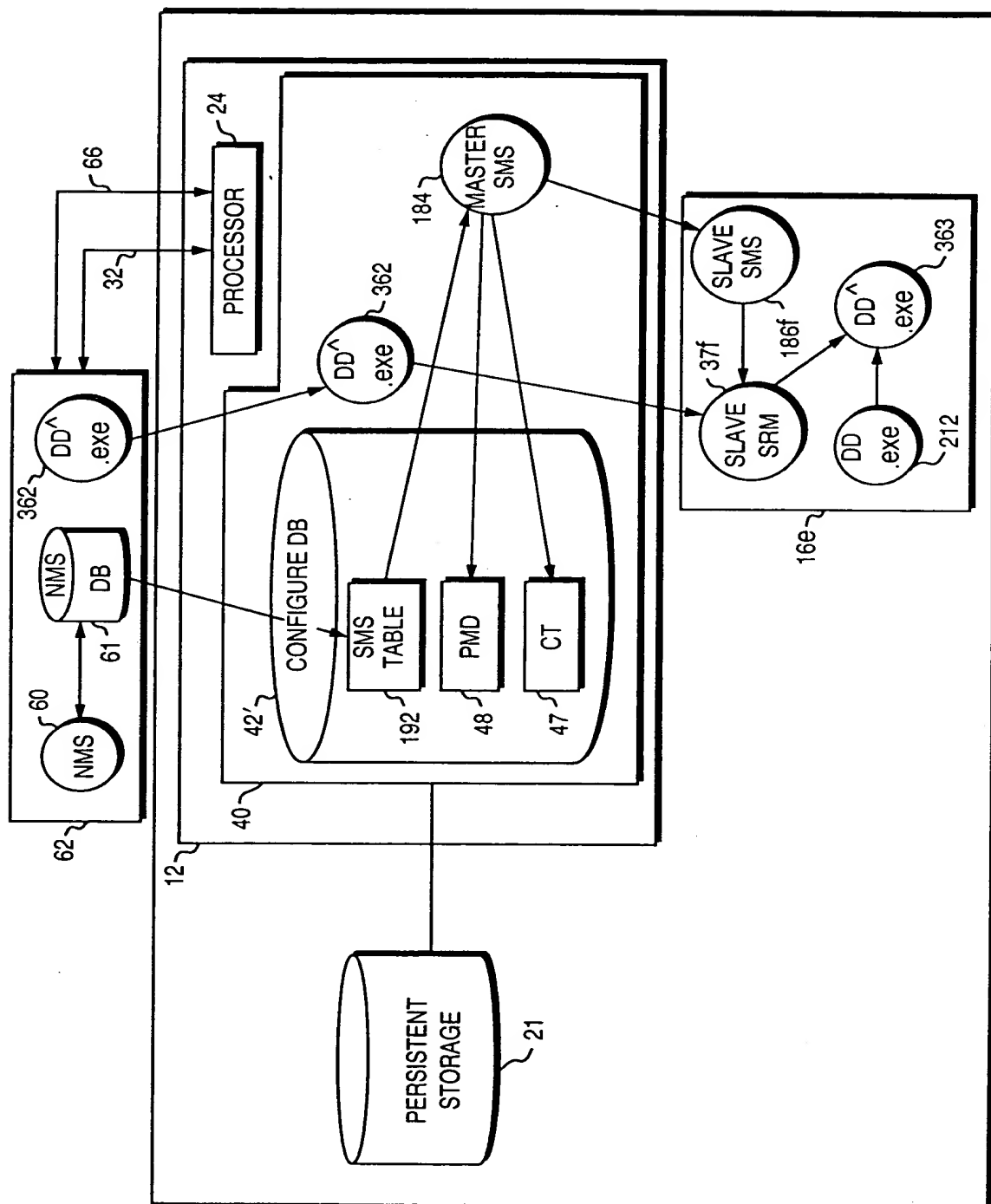


FIG. 23

FIG. 24

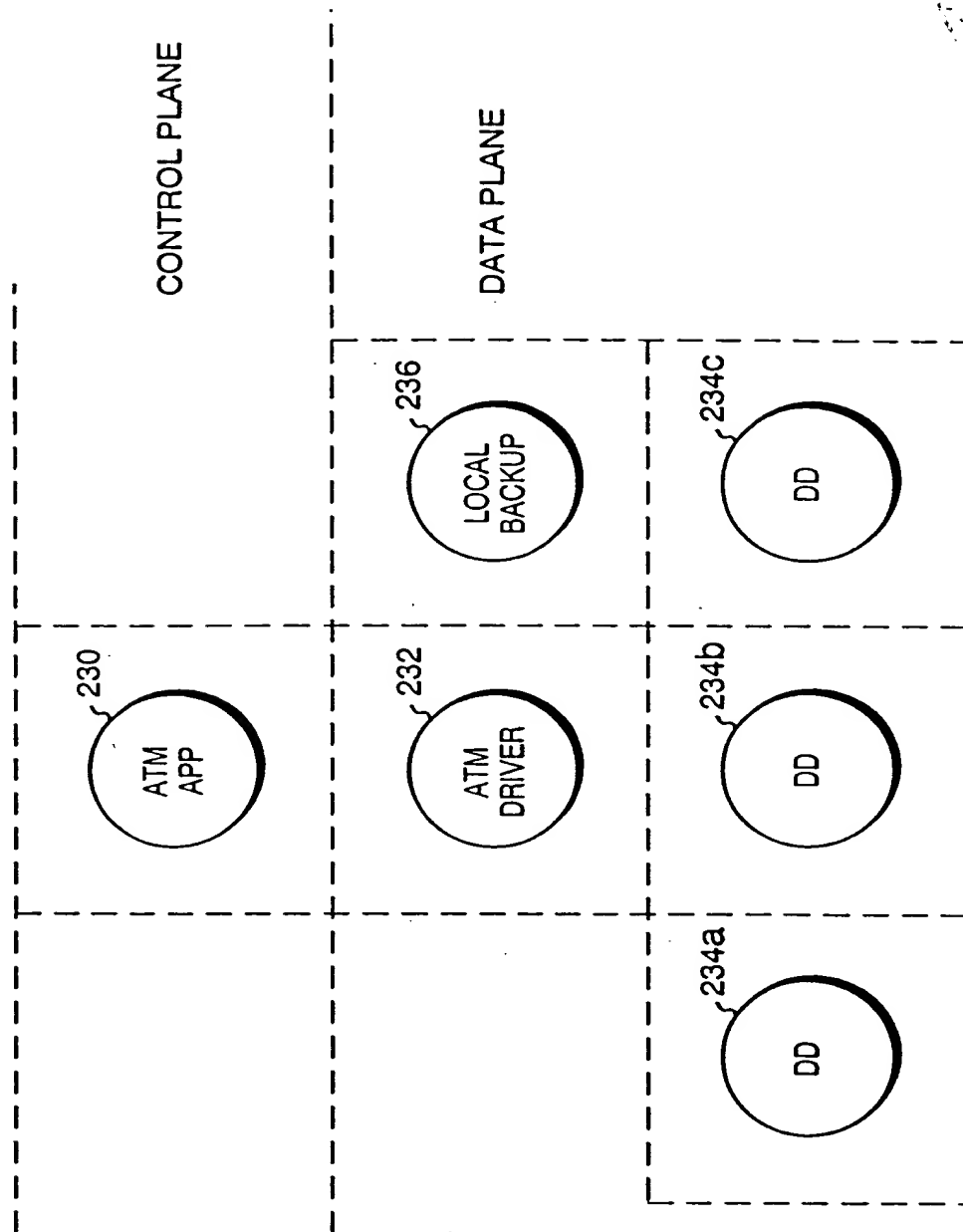


FIG. 24

FIG. 25

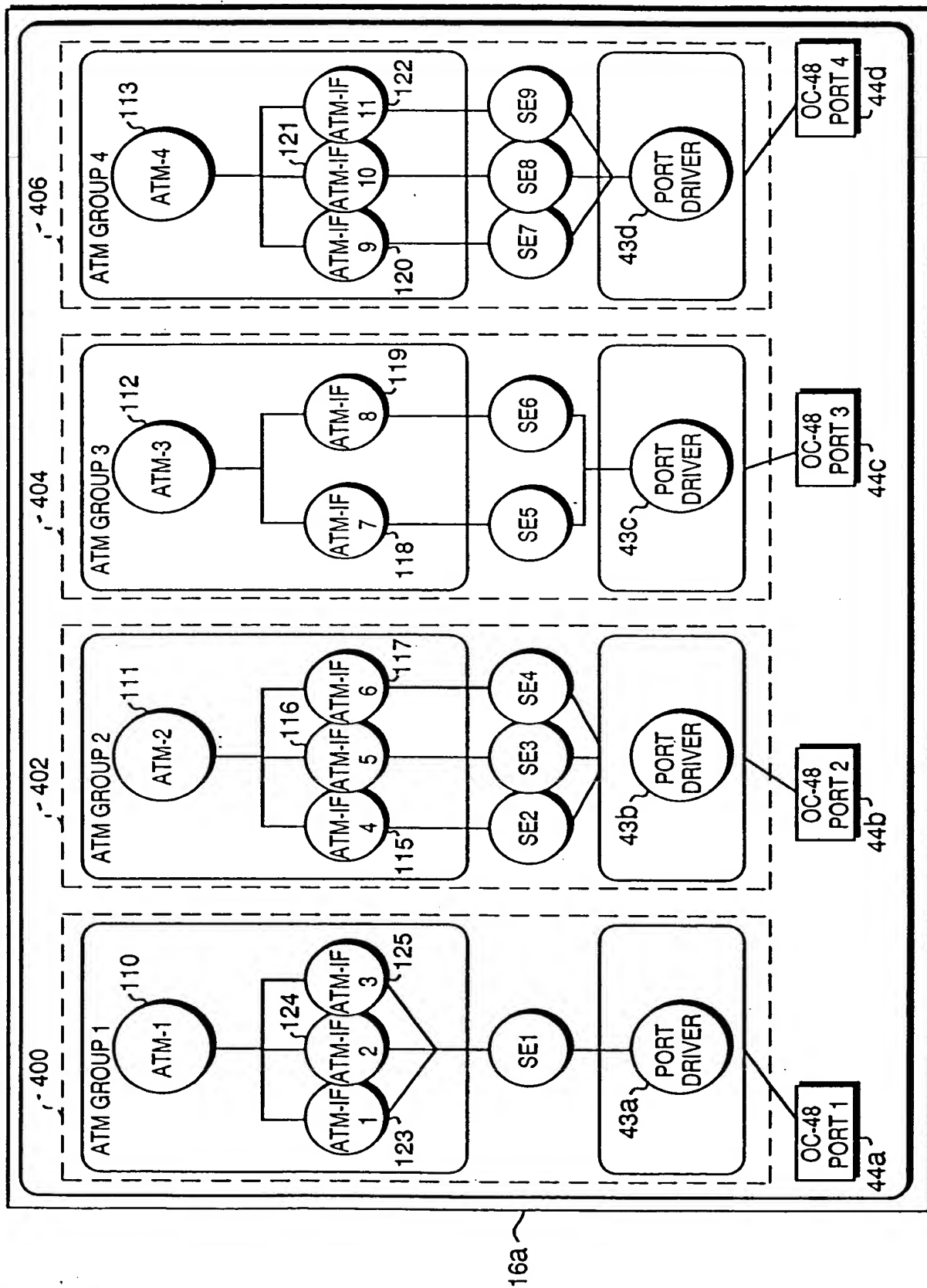


FIG. 25

T02280 96693460

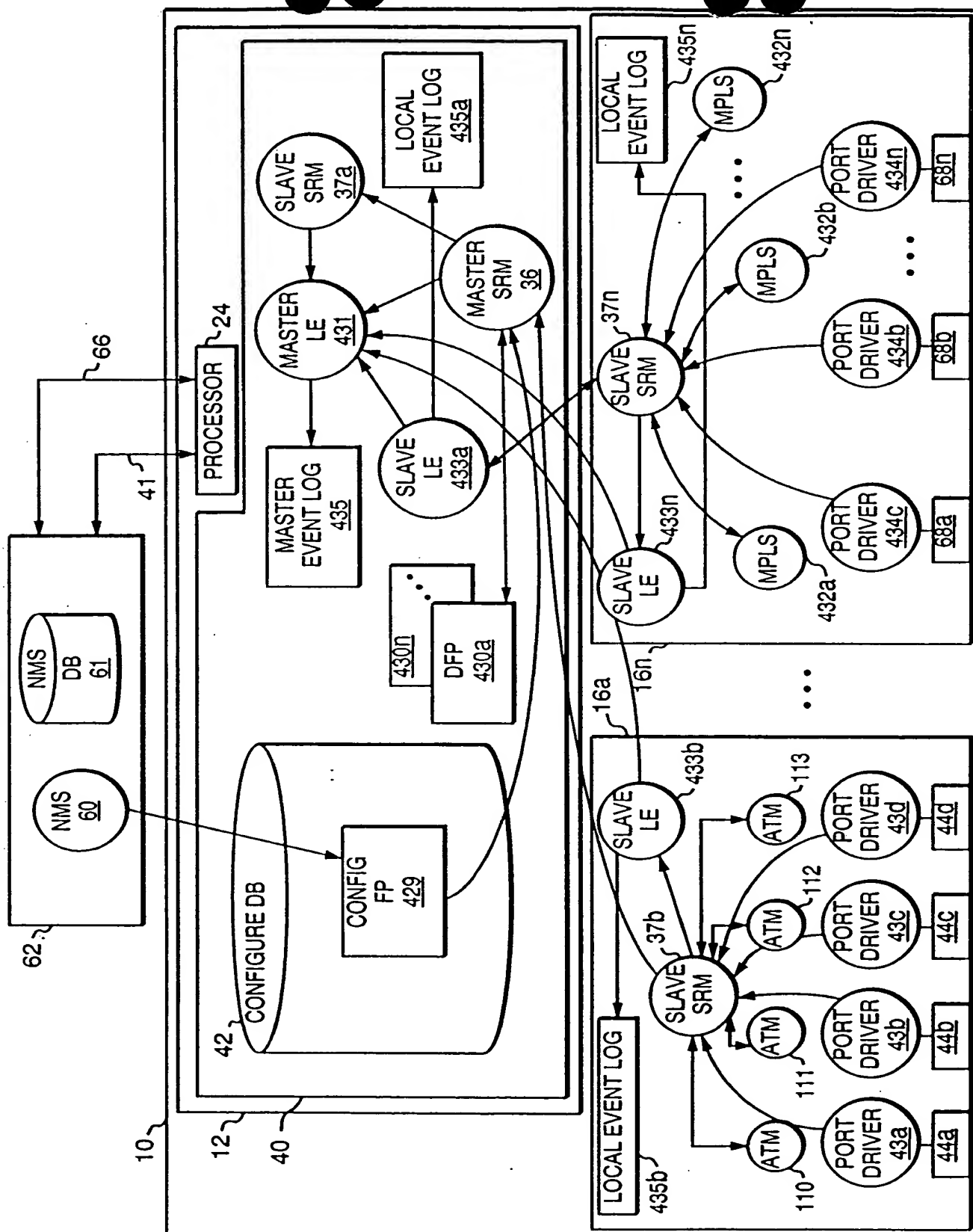


FIG. 26

102689-67

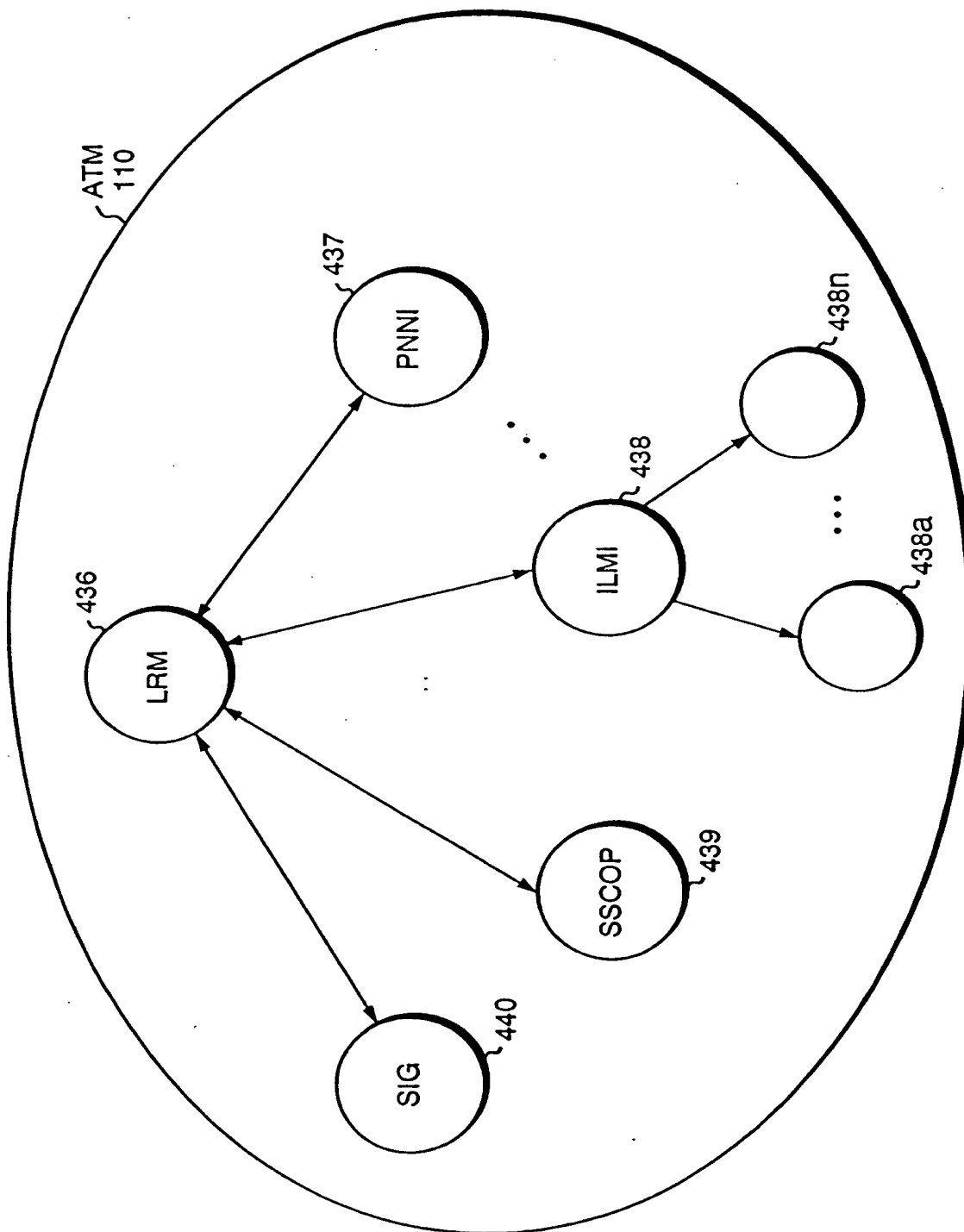


FIG. 27

102689-67

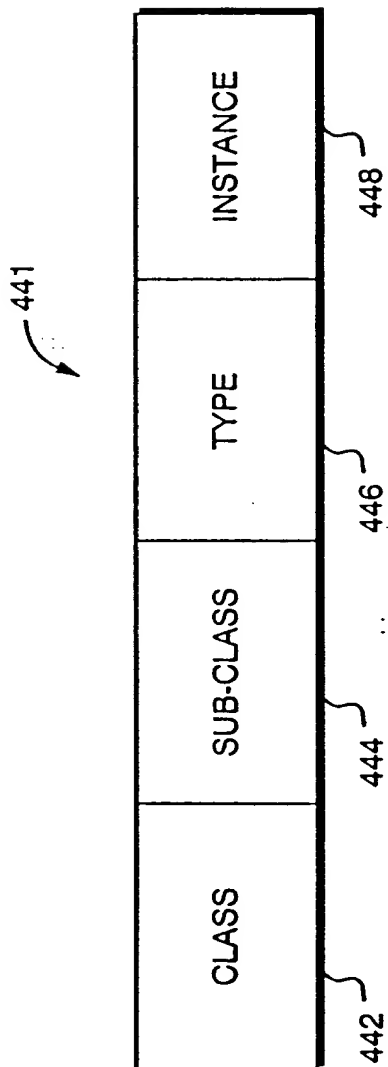


FIG. 28

10/280*32695/60

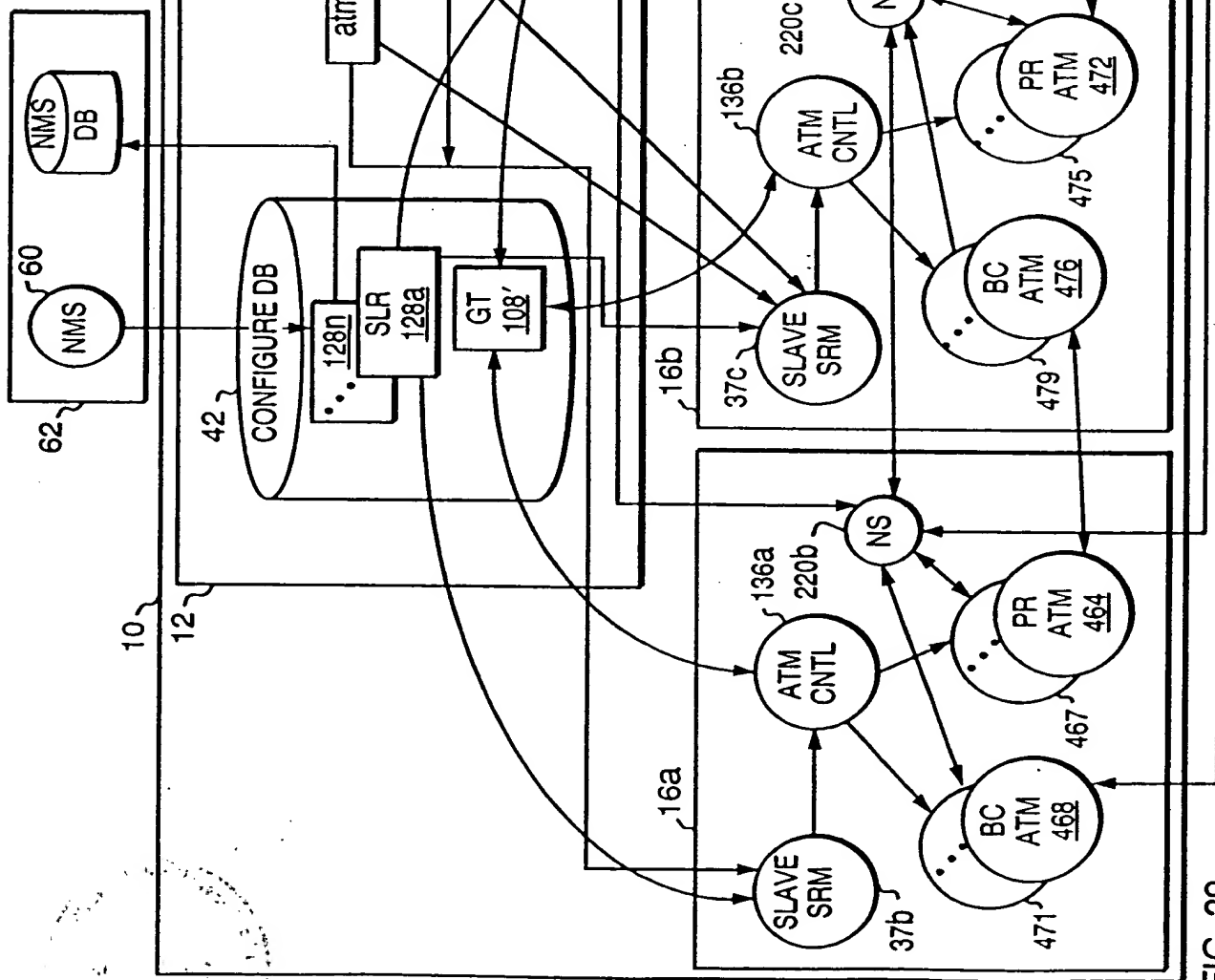


FIG. 29

GROUP TABLE 108'

		447	449	
	GROUP #	PRIMARY CARD LID	BACKUP CARD LID	...
450	1	30	31	
451	2	30	31	
452	3	30	31	
453	4	30	31	
454	5	31	32	
455	6	31	32	
456	7	31	32	
457	8	31	32	
458	9	32	30	
459	10	32	30	
460	11	32	30	
461	12	32	30	
	• • •	• • •	• • •	• • •

FIG. 30

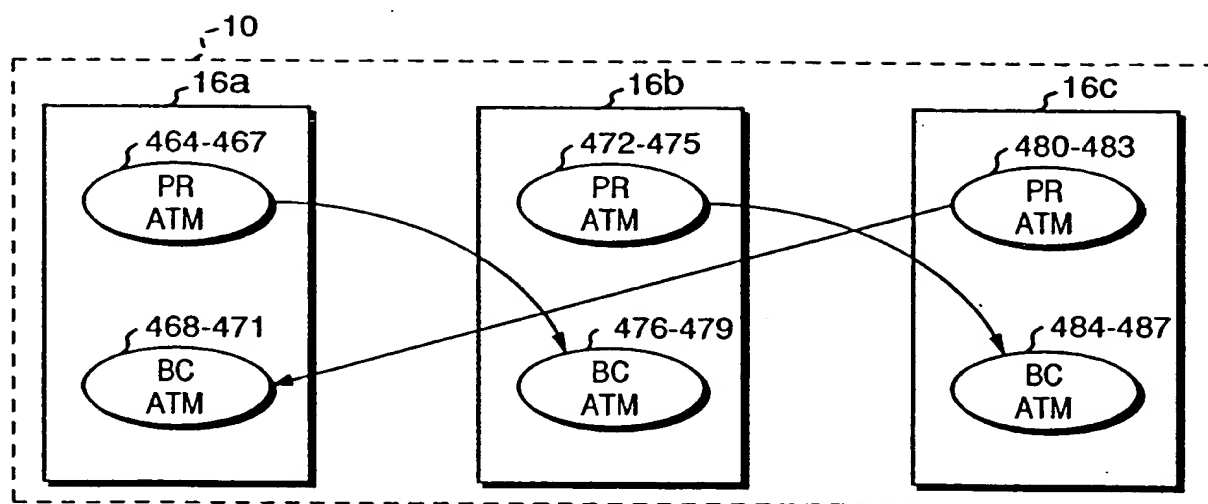


FIG. 31A

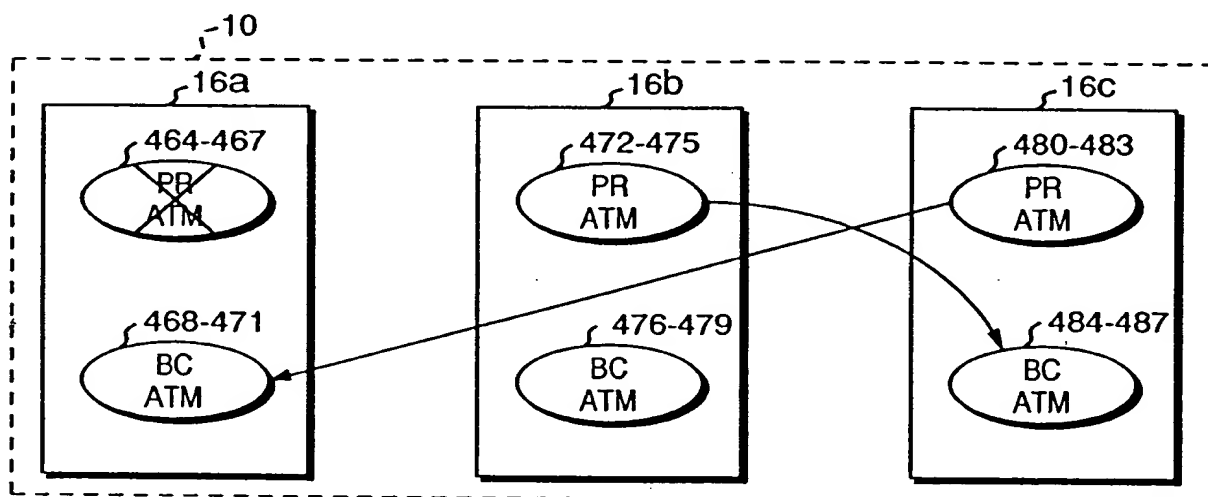


FIG. 31B

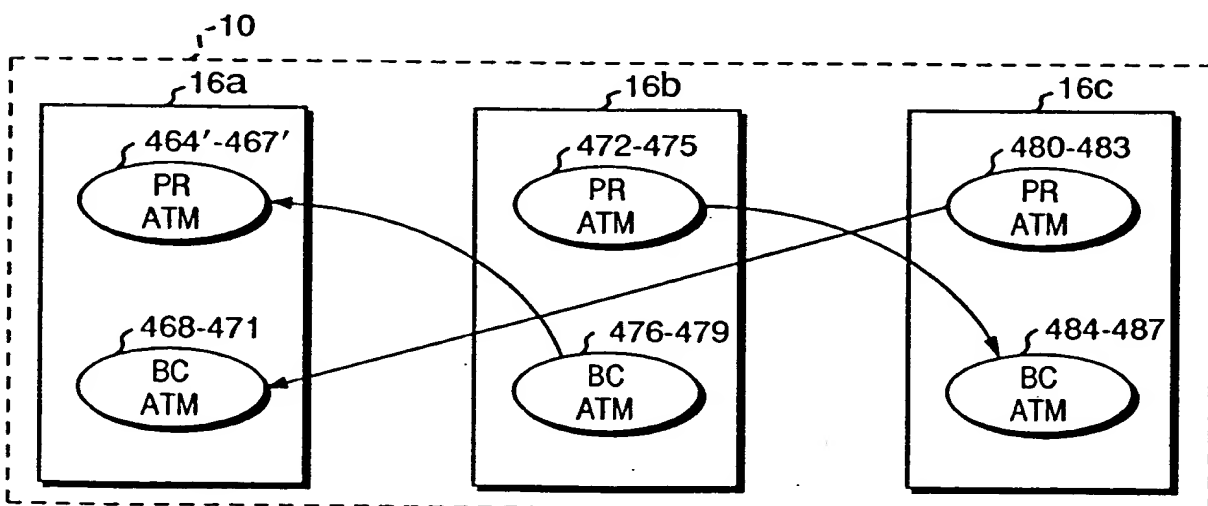


FIG. 31C

102689-67

FOI 2009-06695/60

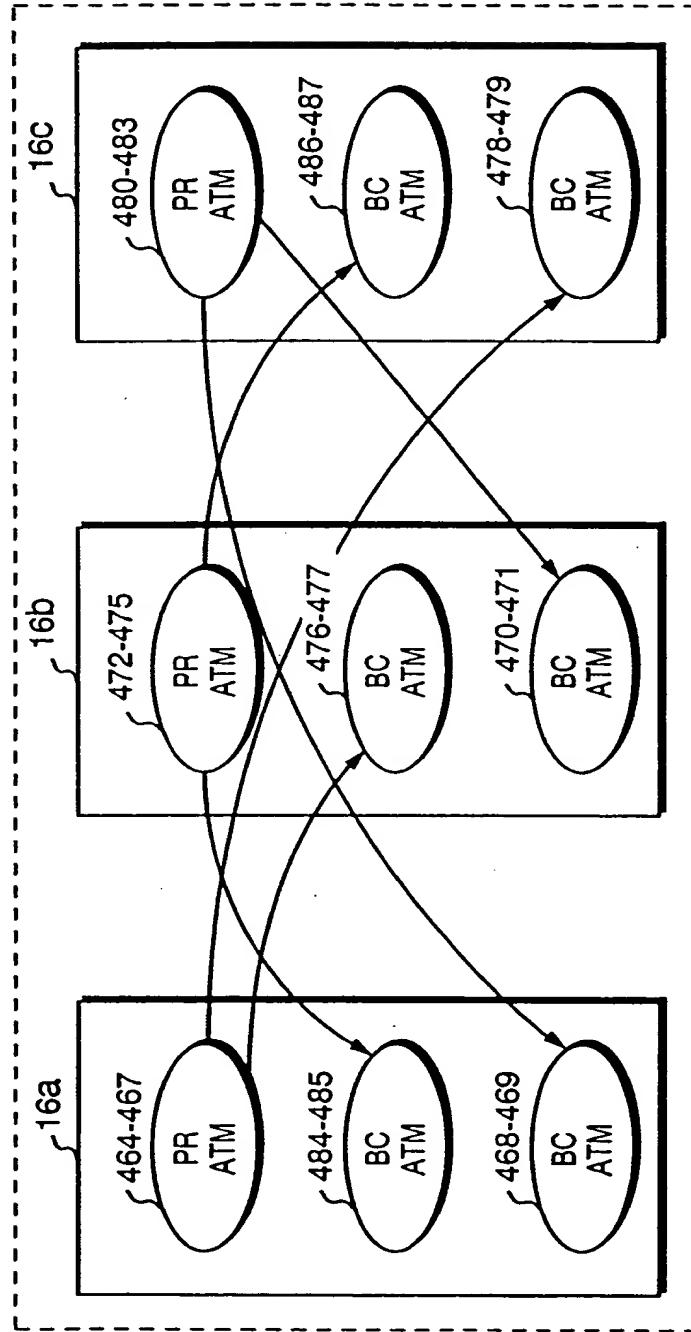


FIG. 32A

FOI 2009-02695260

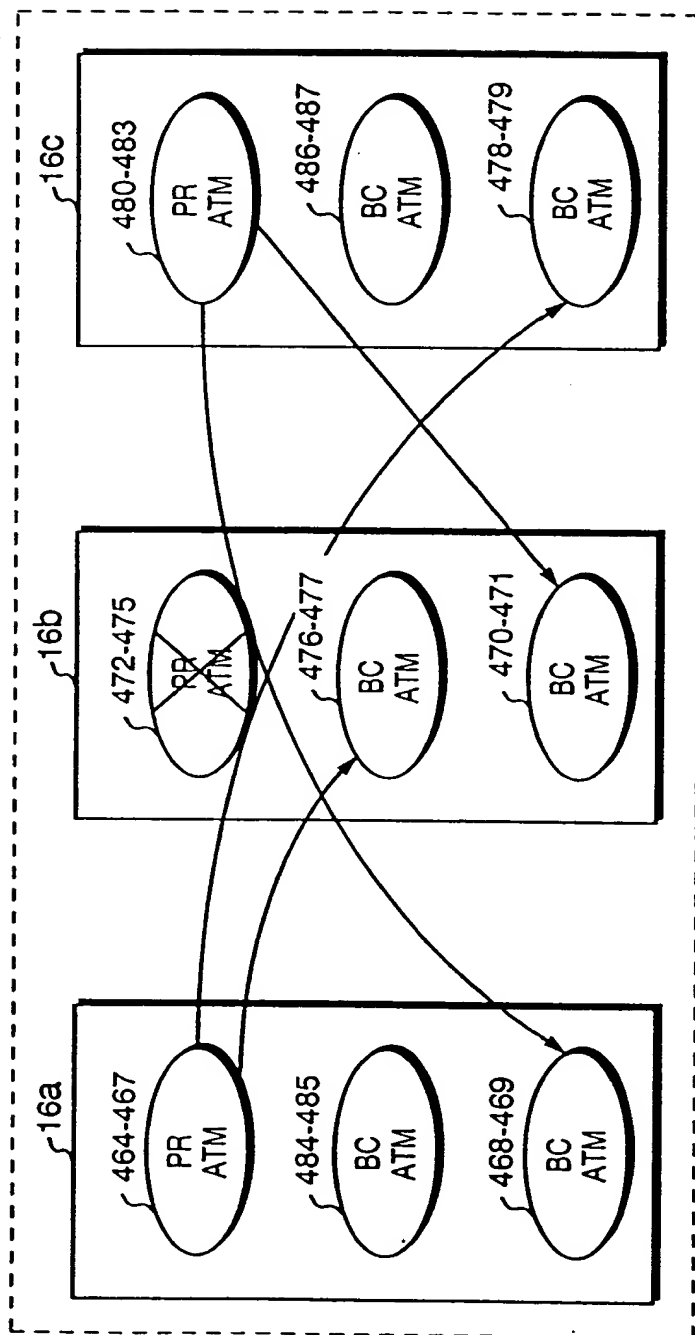


FIG. 32B

FIG. 32C

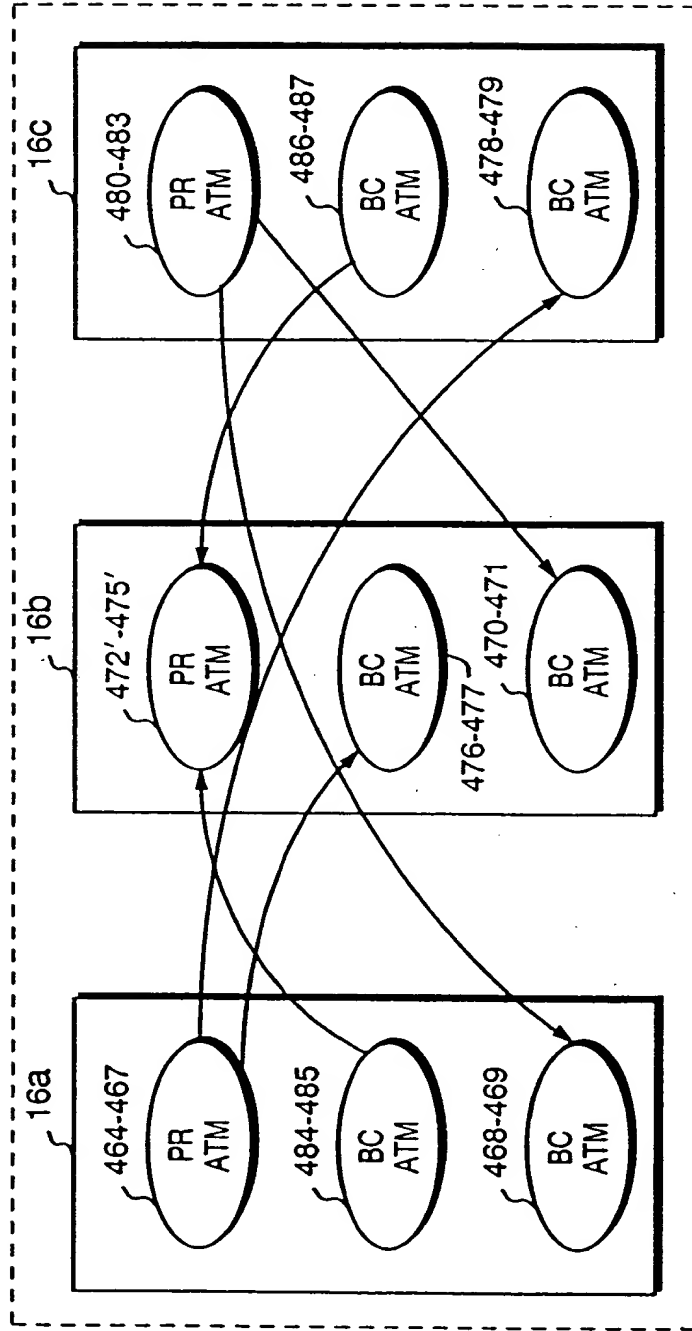


FIG. 32C

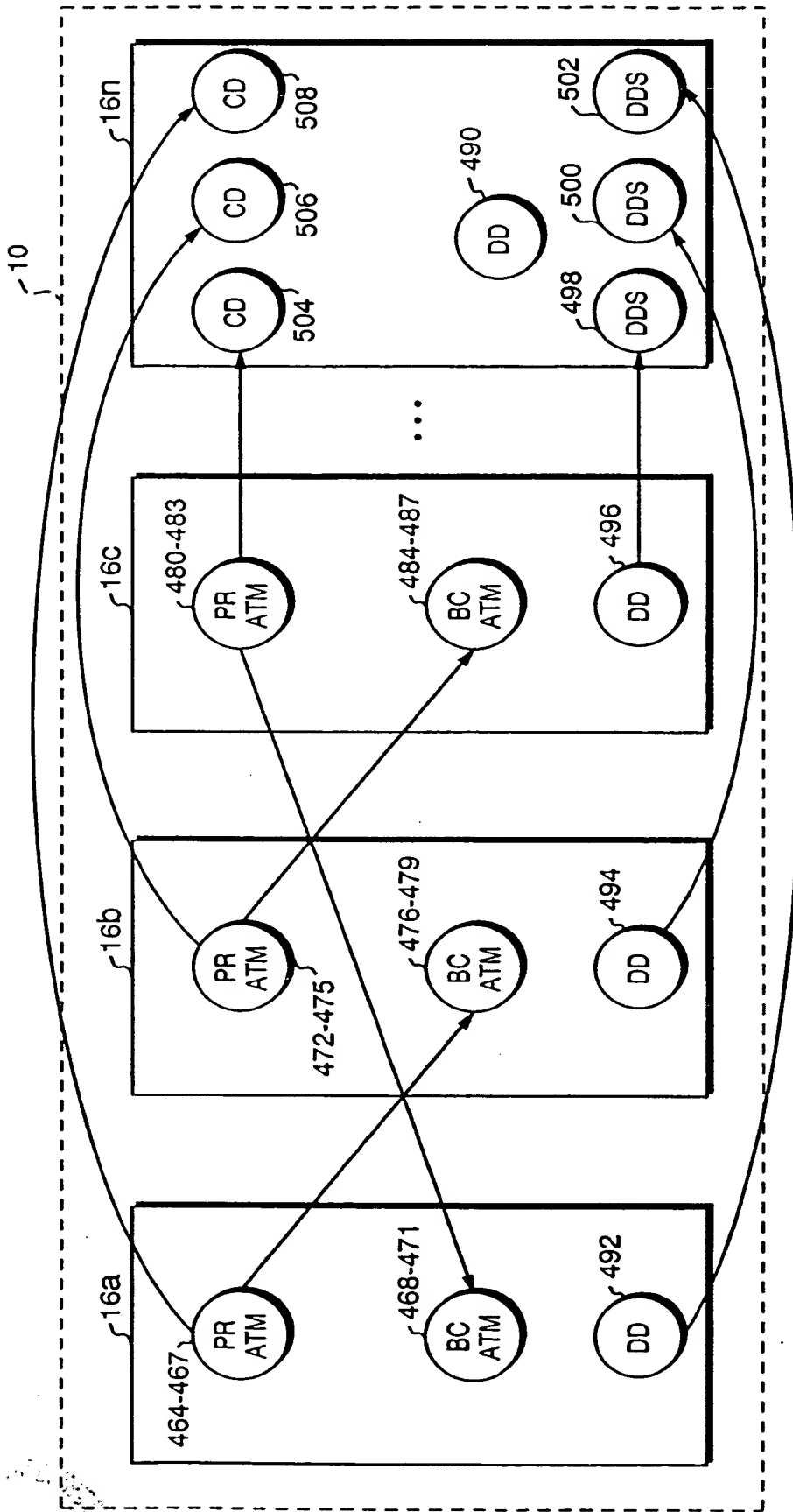


FIG. 33A

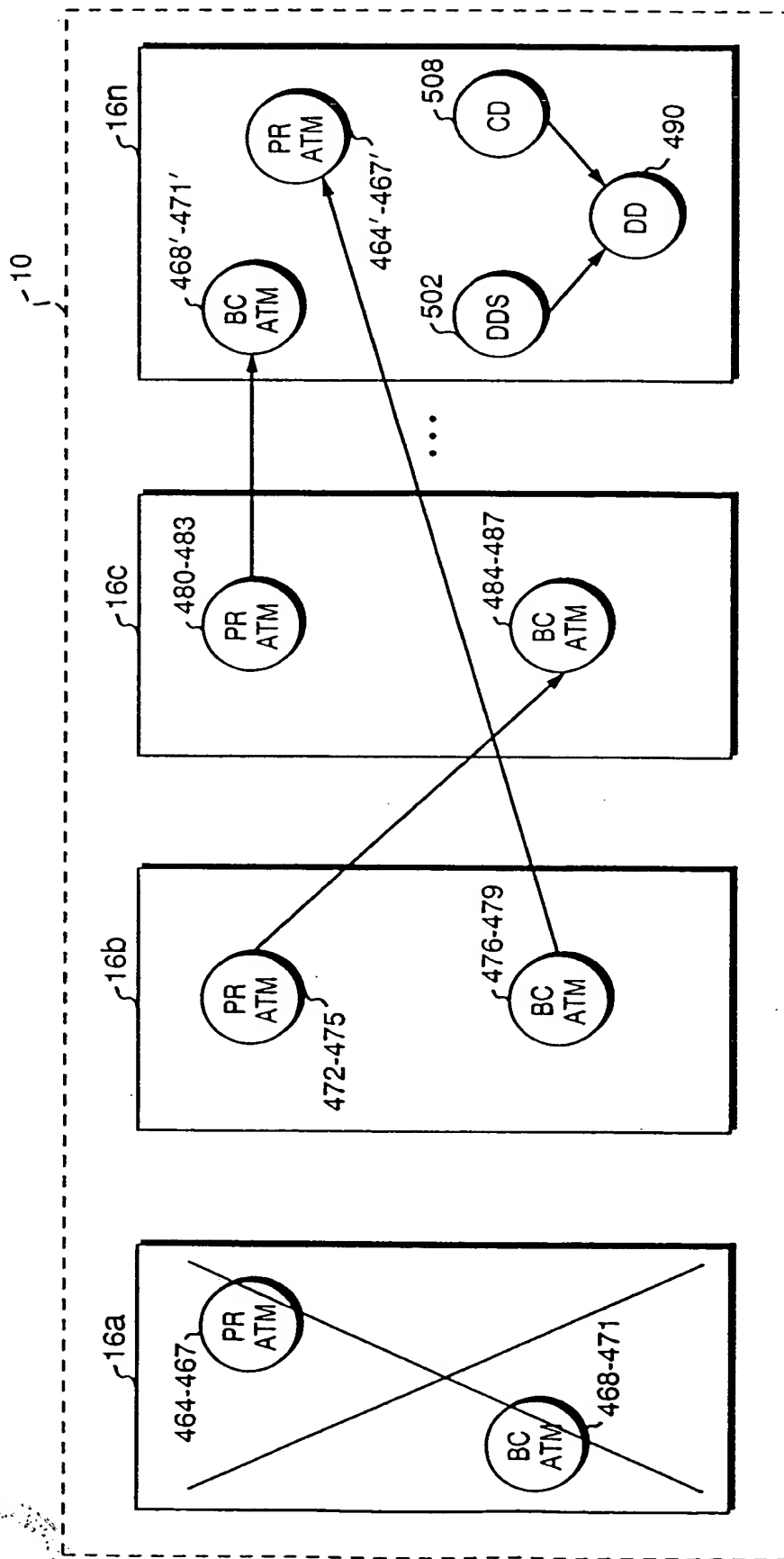


FIG. 33B

10/22/00 09:09:46

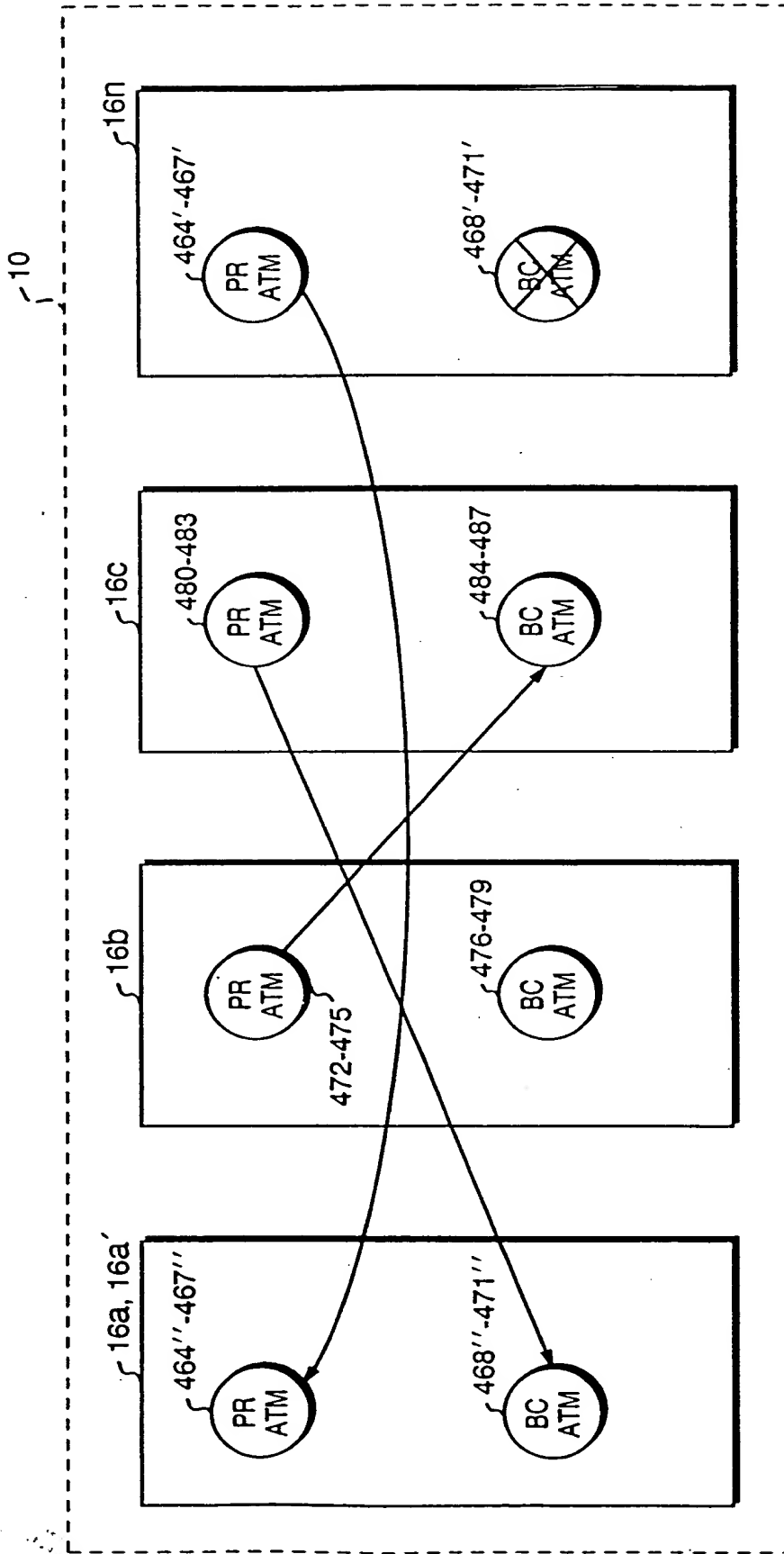


FIG. 33C

FIG. 33D

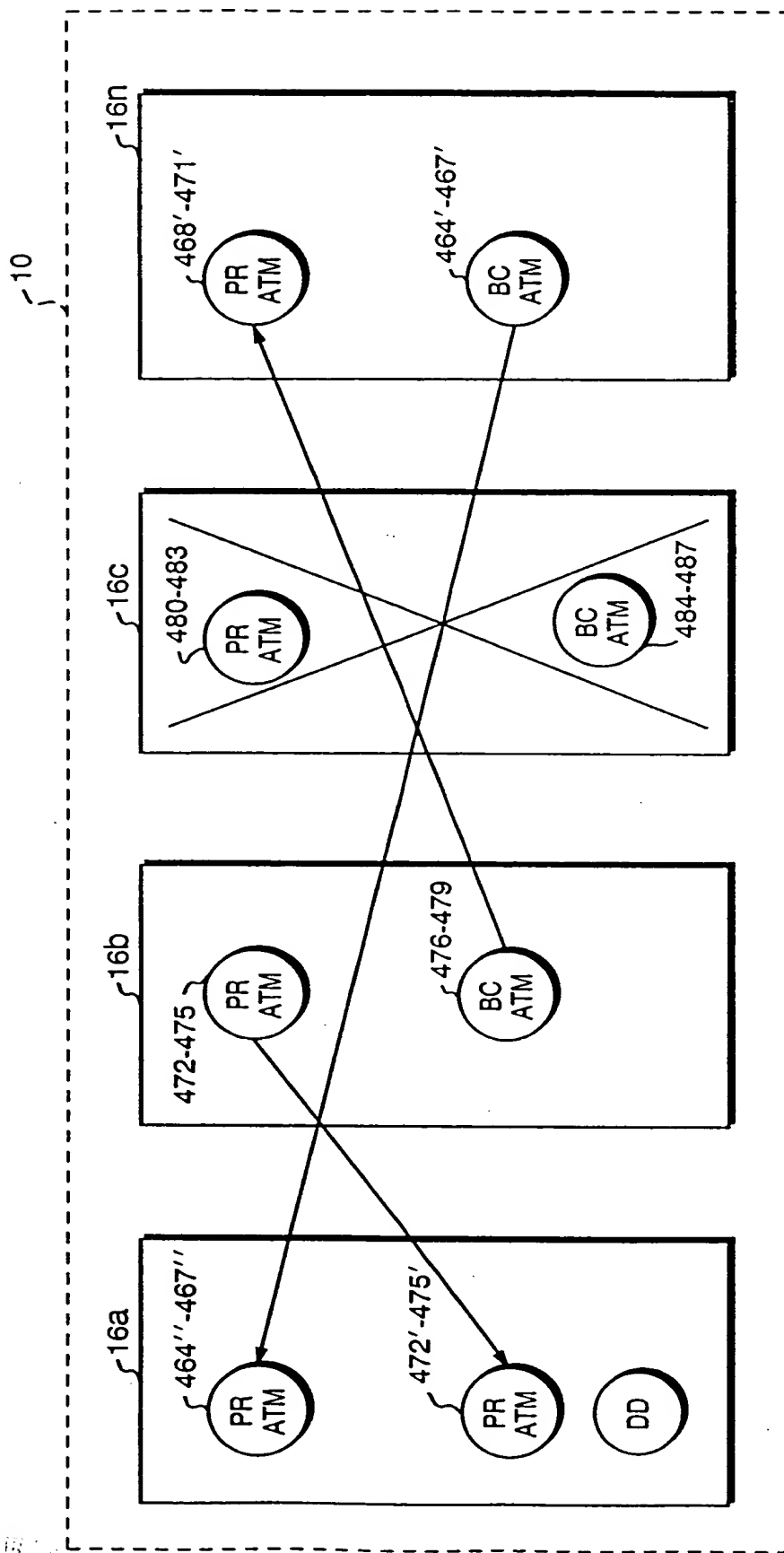


FIG. 33D

FIG. 34A

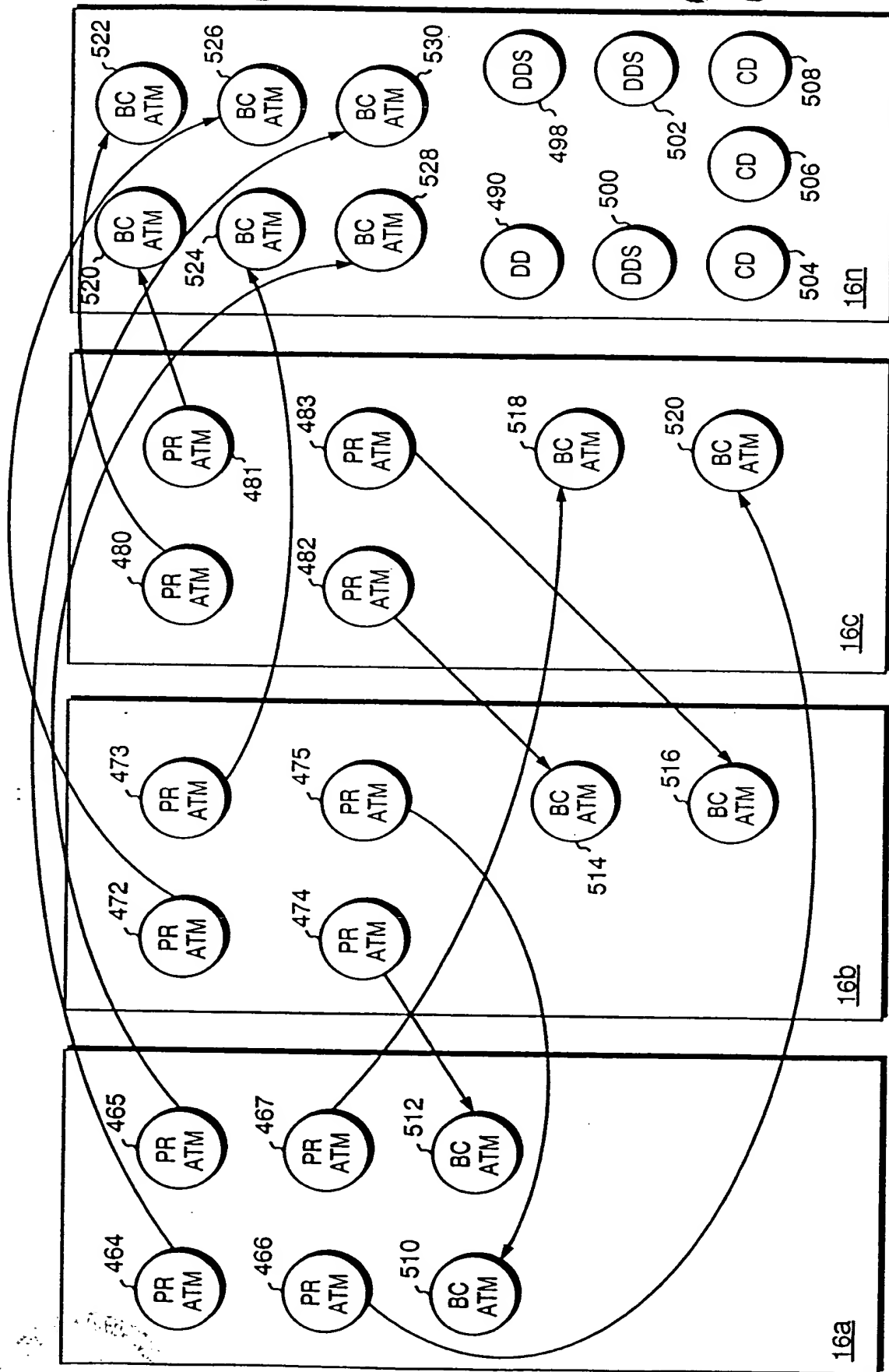


FIG. 34A

10/230* 9E695260

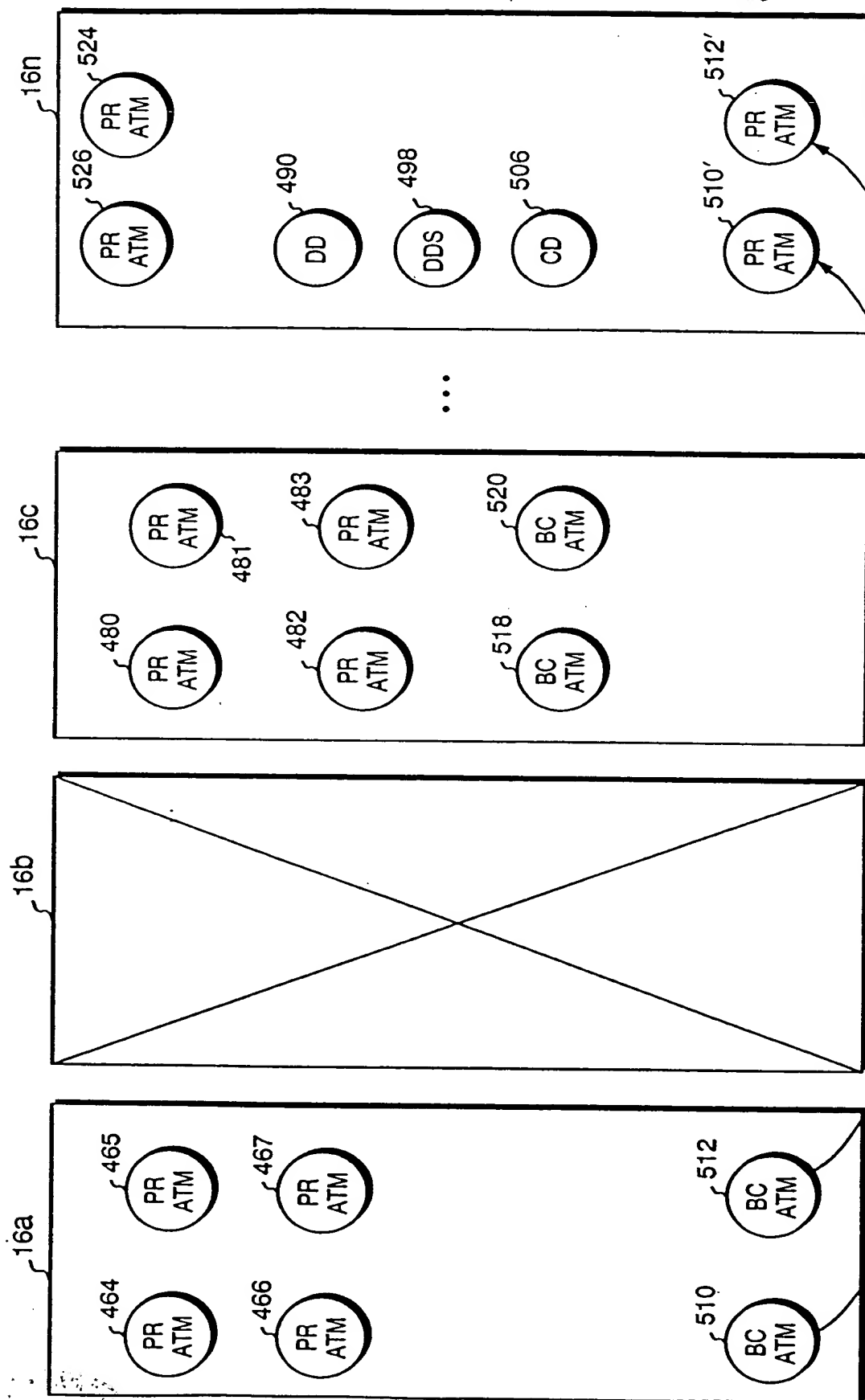
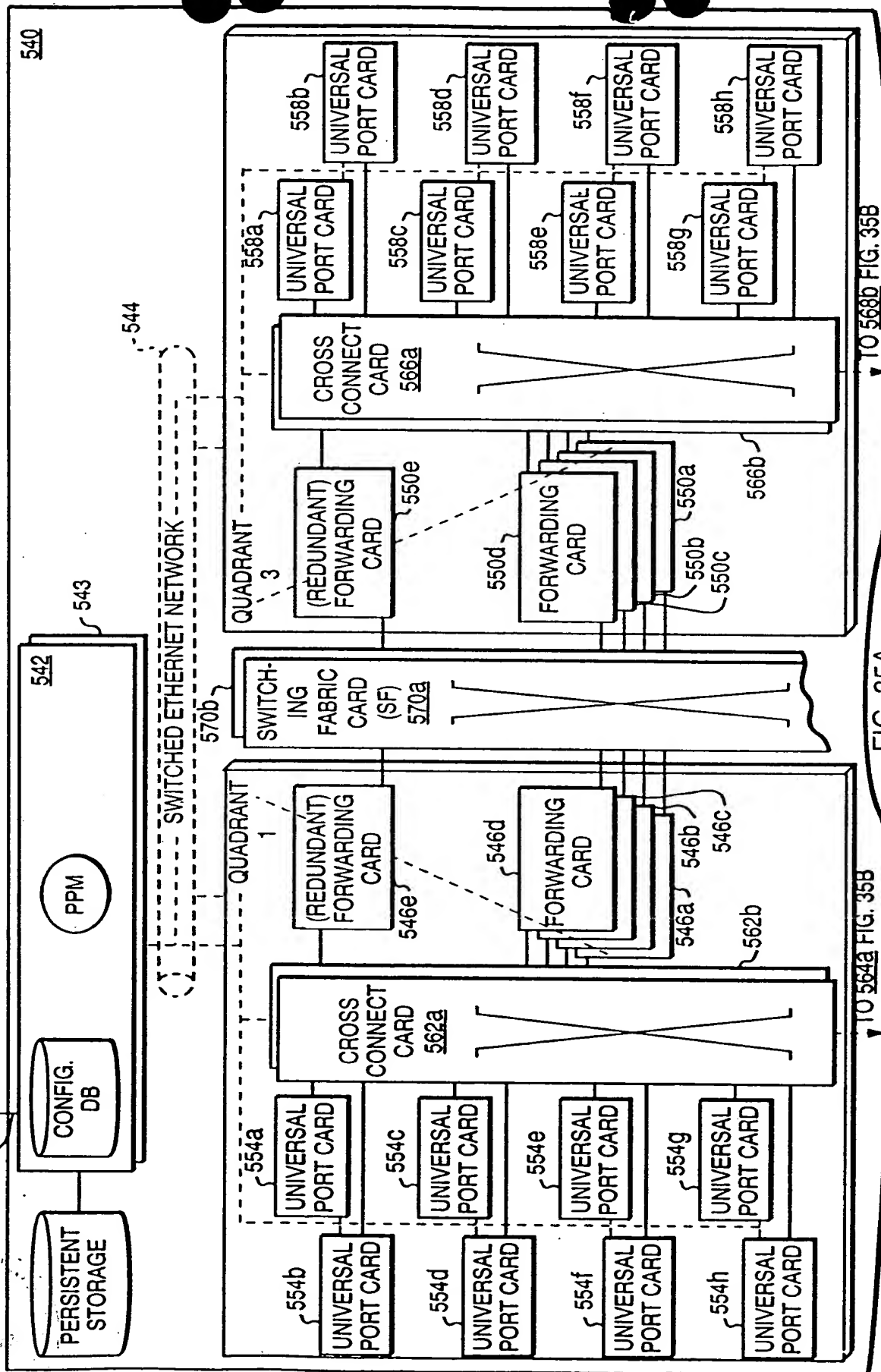
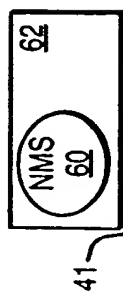


FIG. 34B

FO/280" 92695/60



TO 568b FIG. 35B

TO 552a FIG. 35B

FIG. 35A

T.D/280" 9E695460

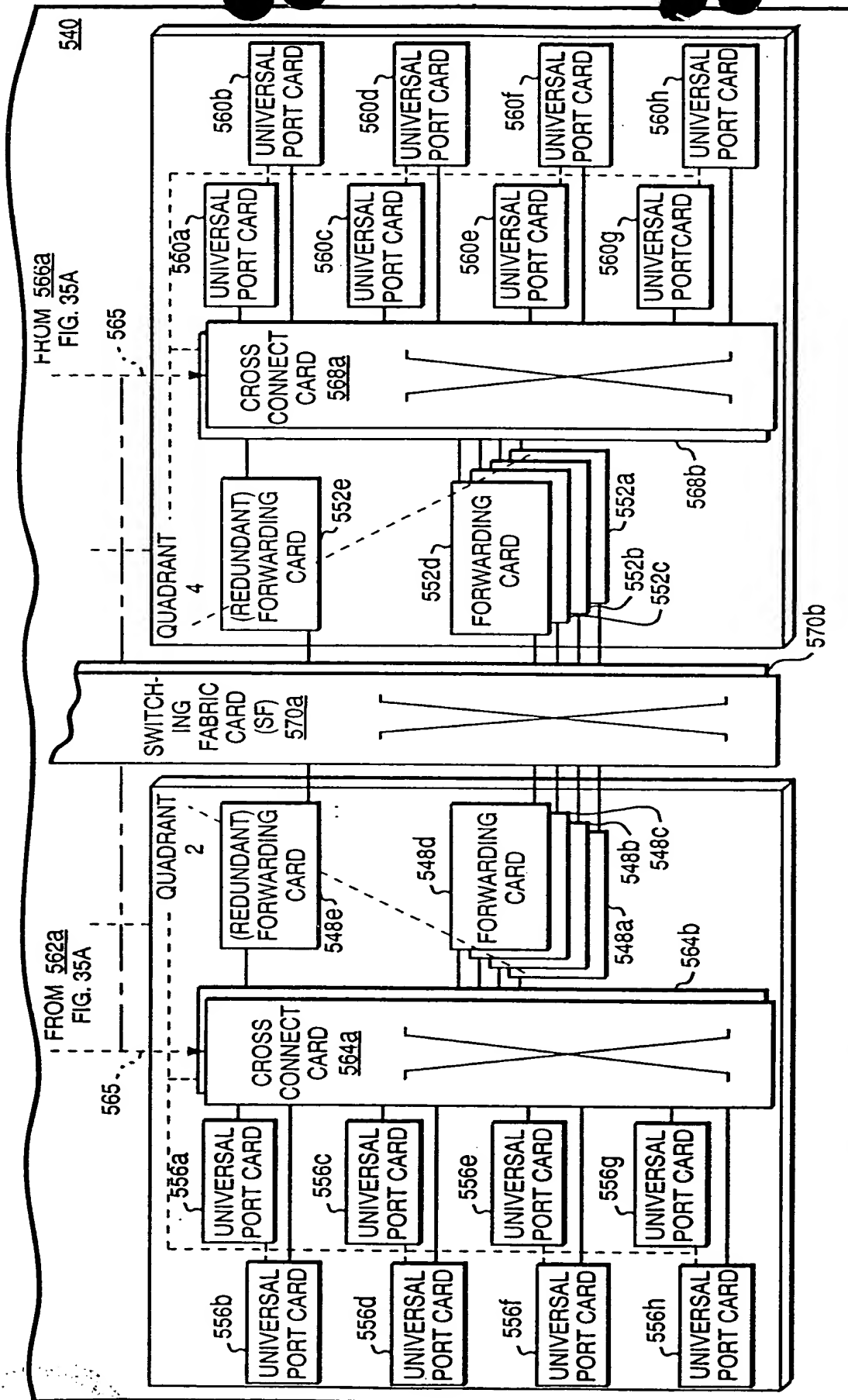


FIG. 35B

TO 280 9655460

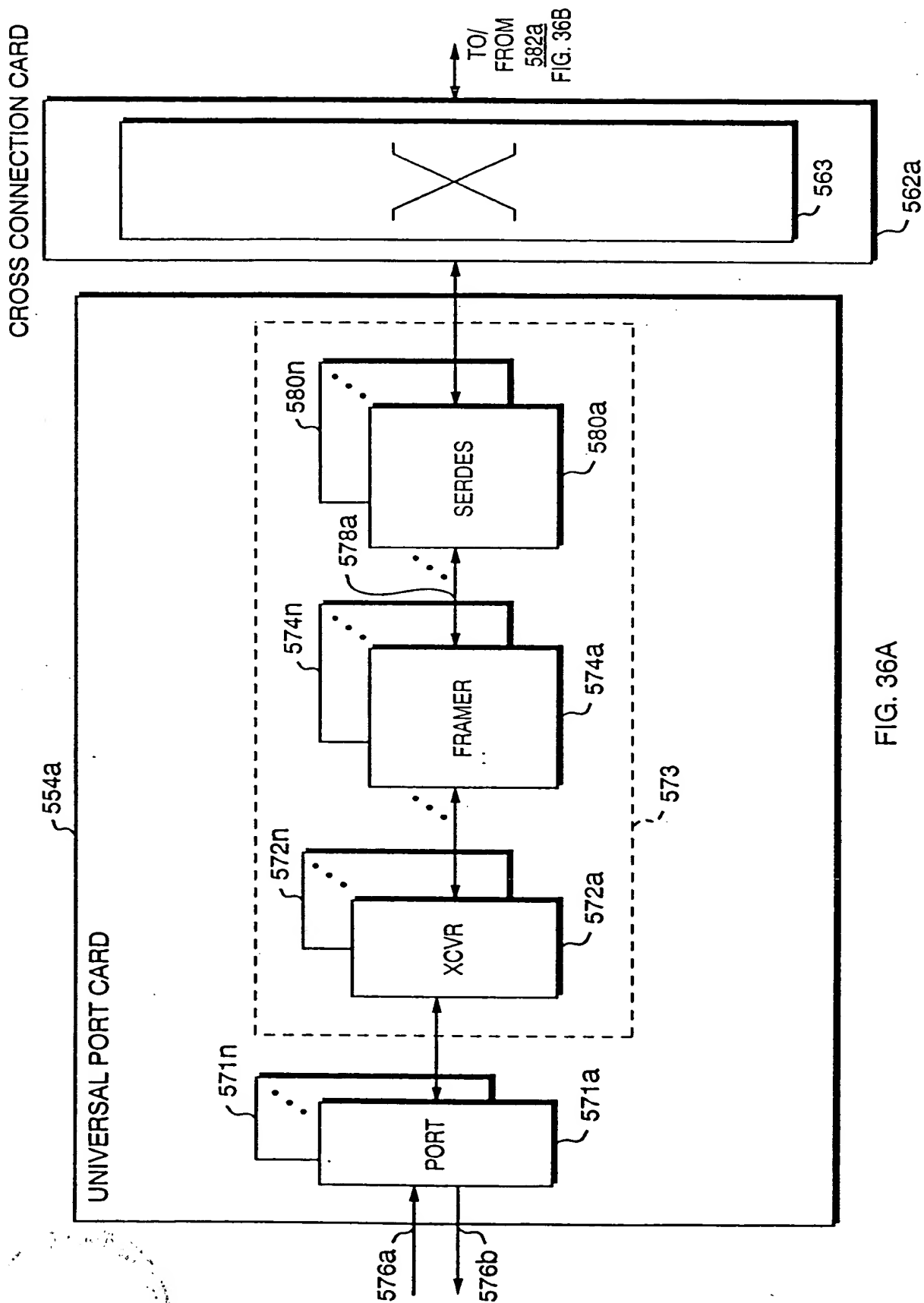


FIG. 36A

TO 280 9695/60

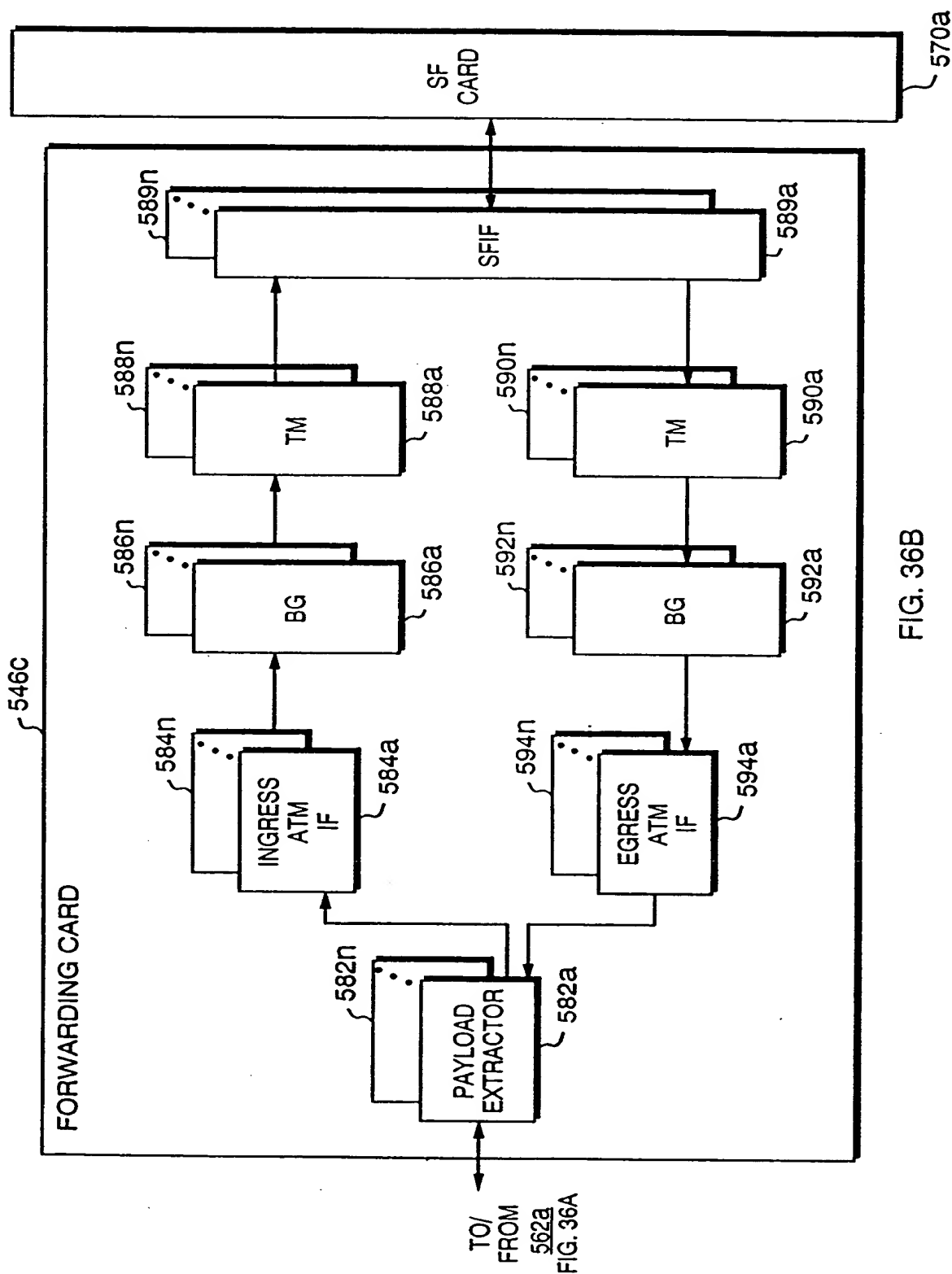


FIG. 36B

TD 280 96695460

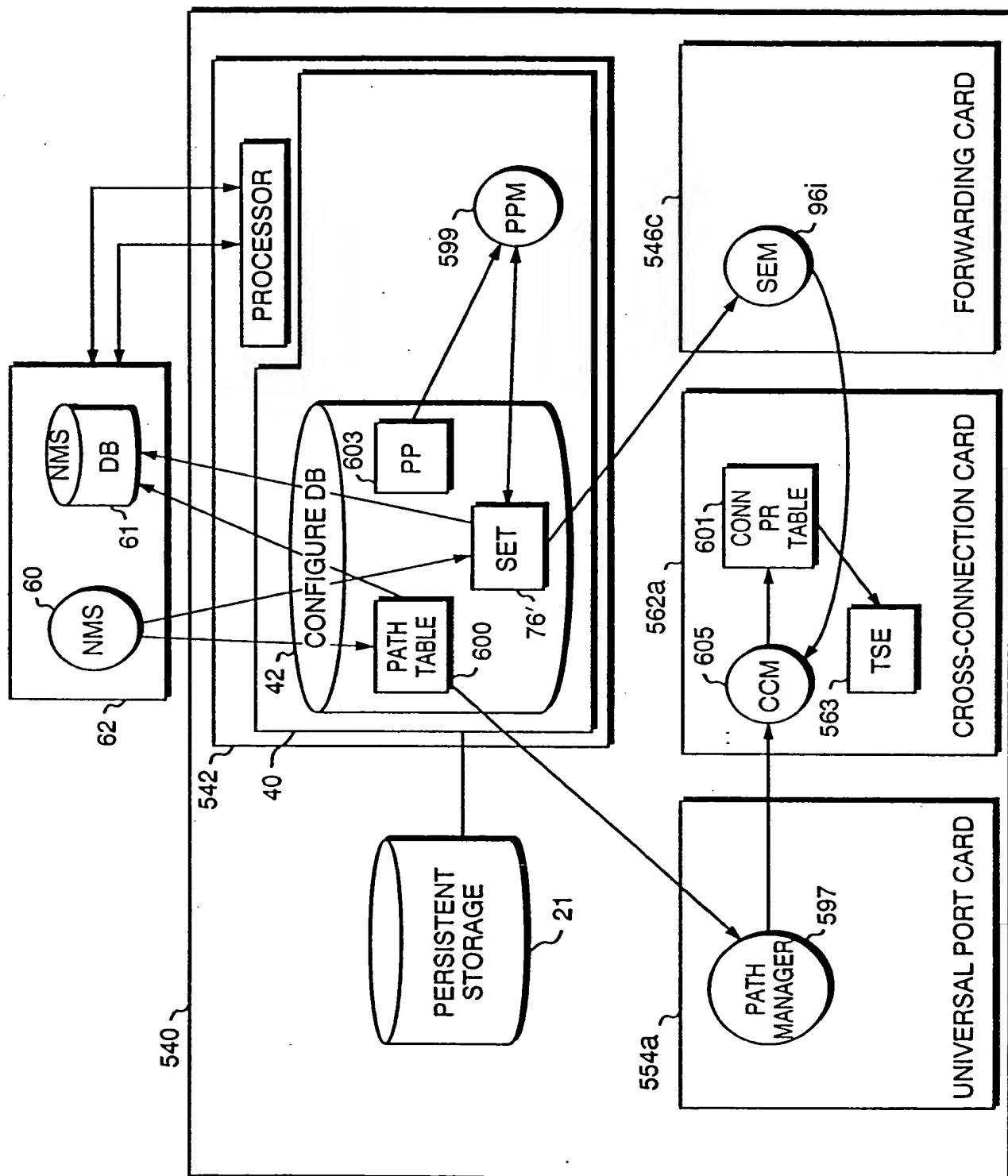


FIG. 37

PATH TABLE 600

602

PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	...
1666	1231	4	3	
⋮	⋮	⋮	⋮	⋮

FIG. 38

0956936-082704

SERVICE END POINT TABLE 76'

		606		608		610		
604		SE #	Q #	FC LID	FC SLICE	FC TIME SLOT	PATH PID	...
		878	1				1666	
	
		:	:	:	:	:	:	:
	

FIG. 39

102689-67

540

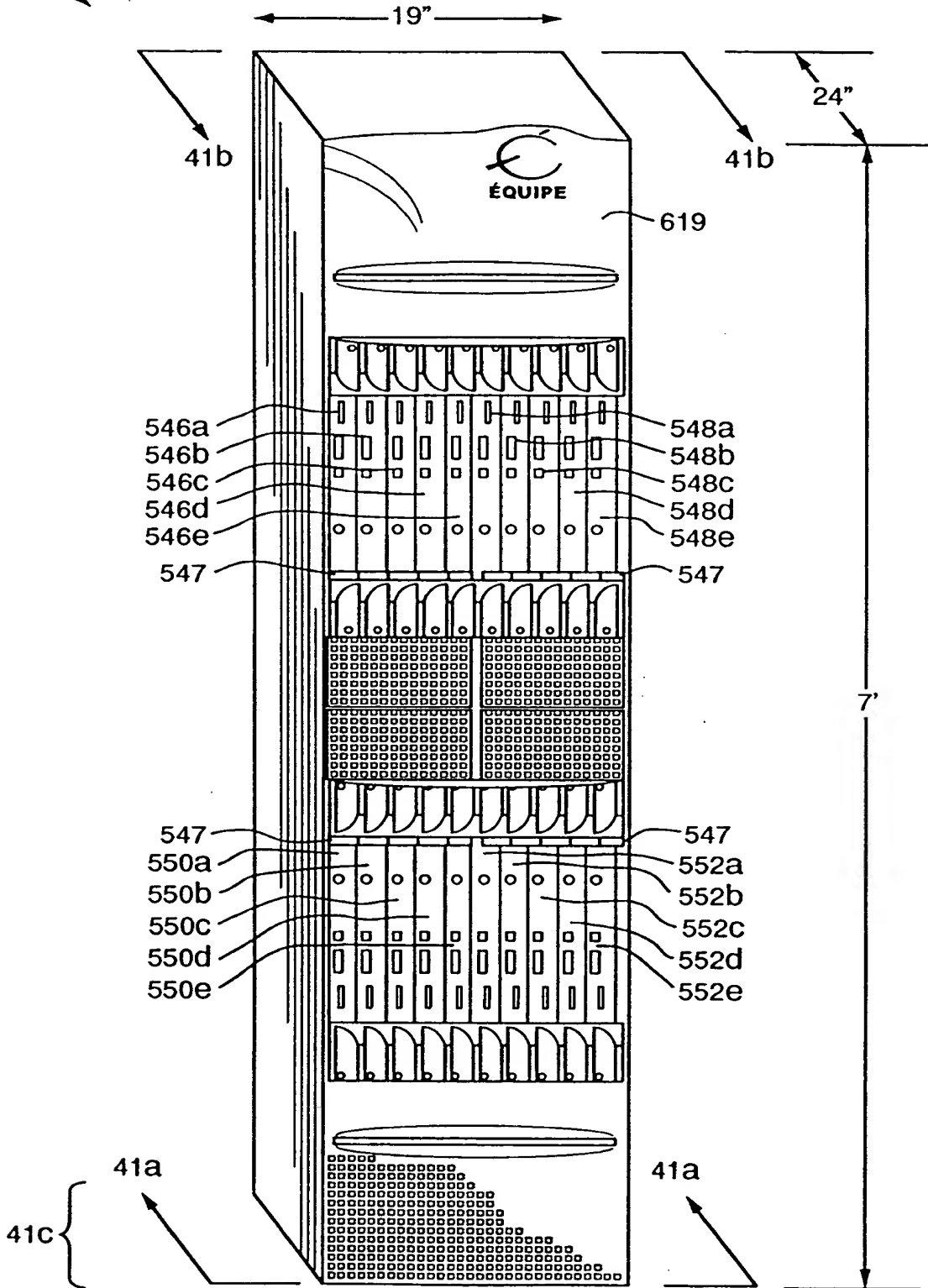


FIG. 40

FRONT

620

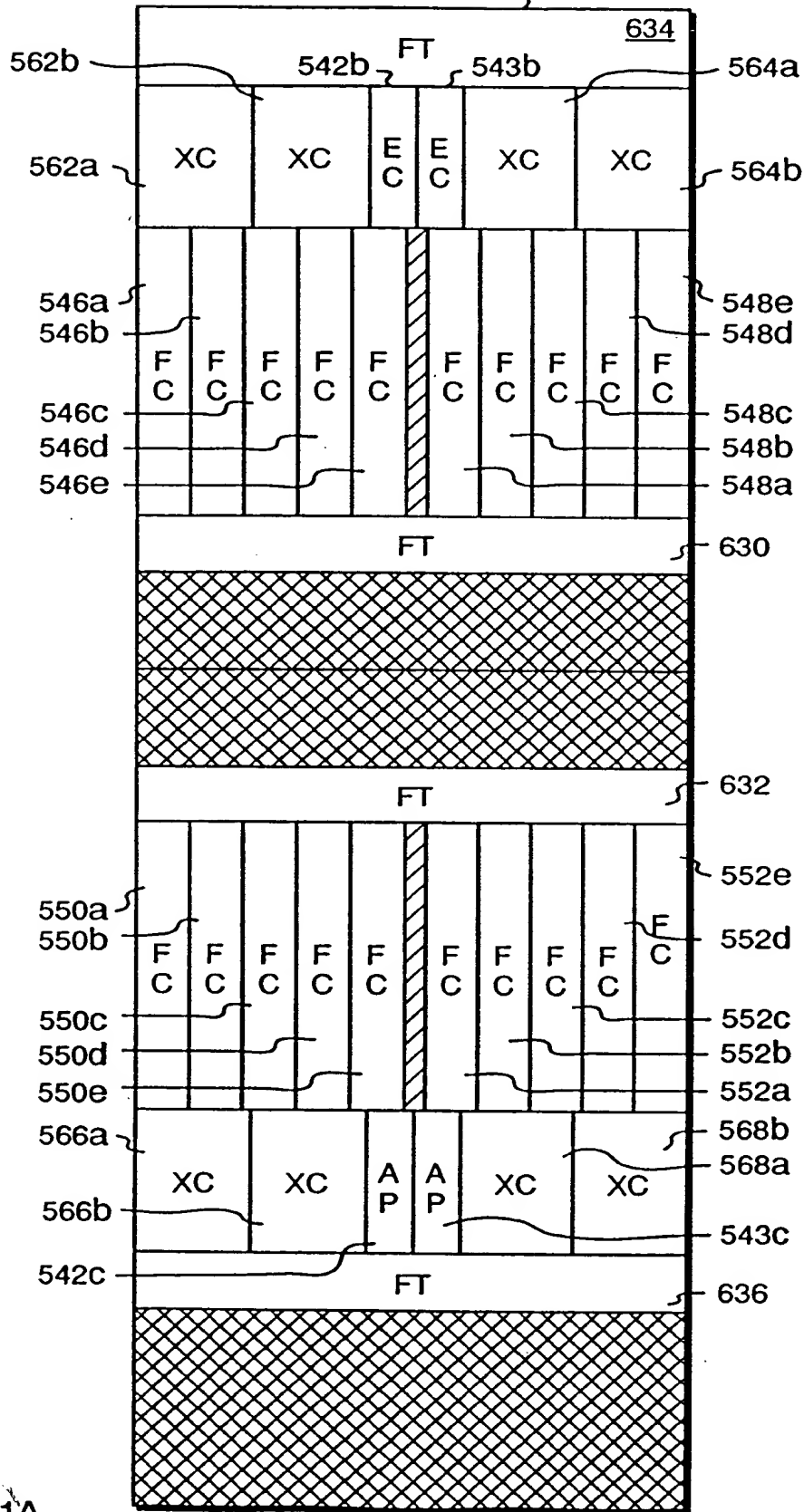


FIG. 41A

FOU2280 9E695260

09756936-082701

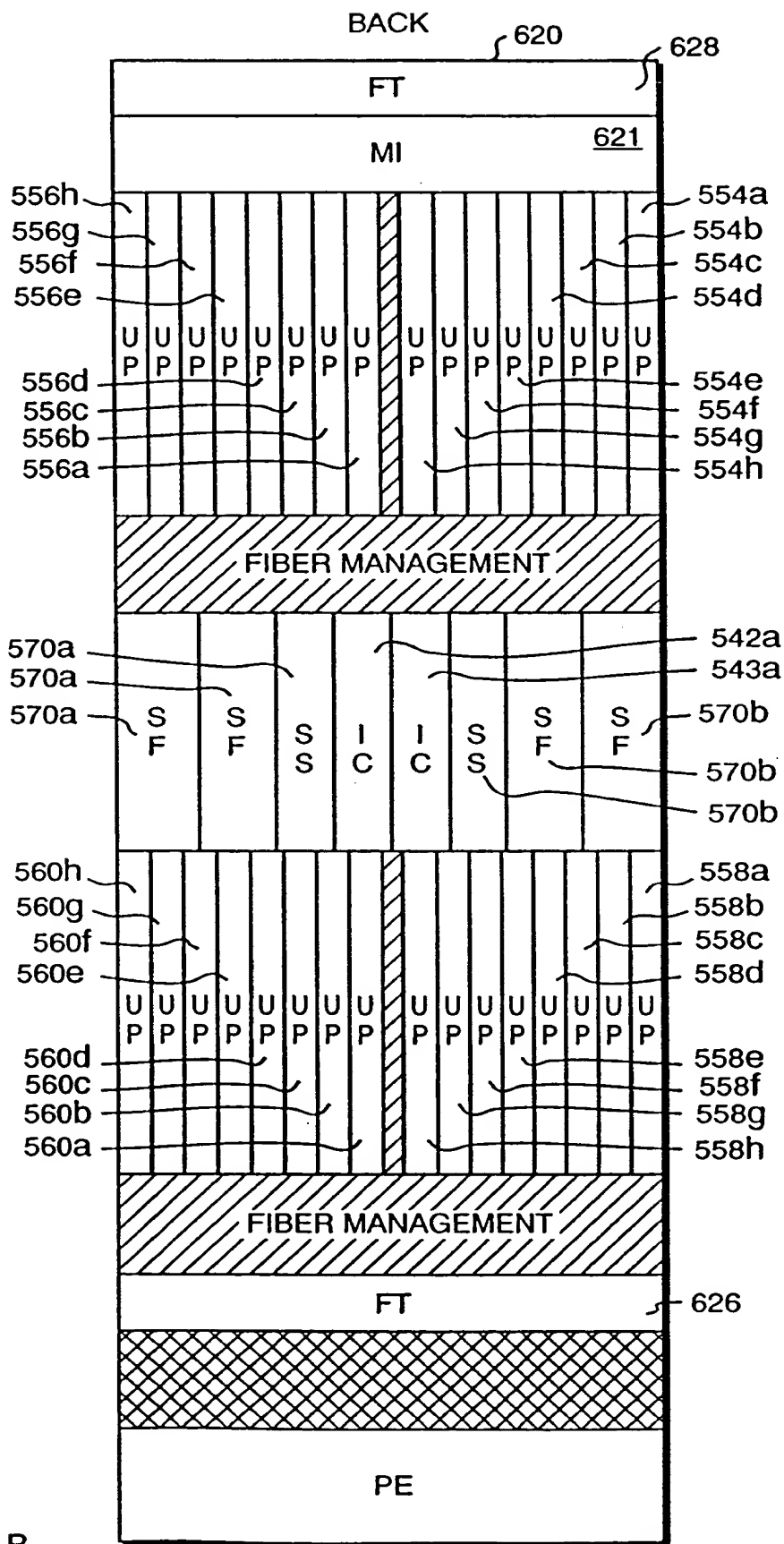


FIG. 41B

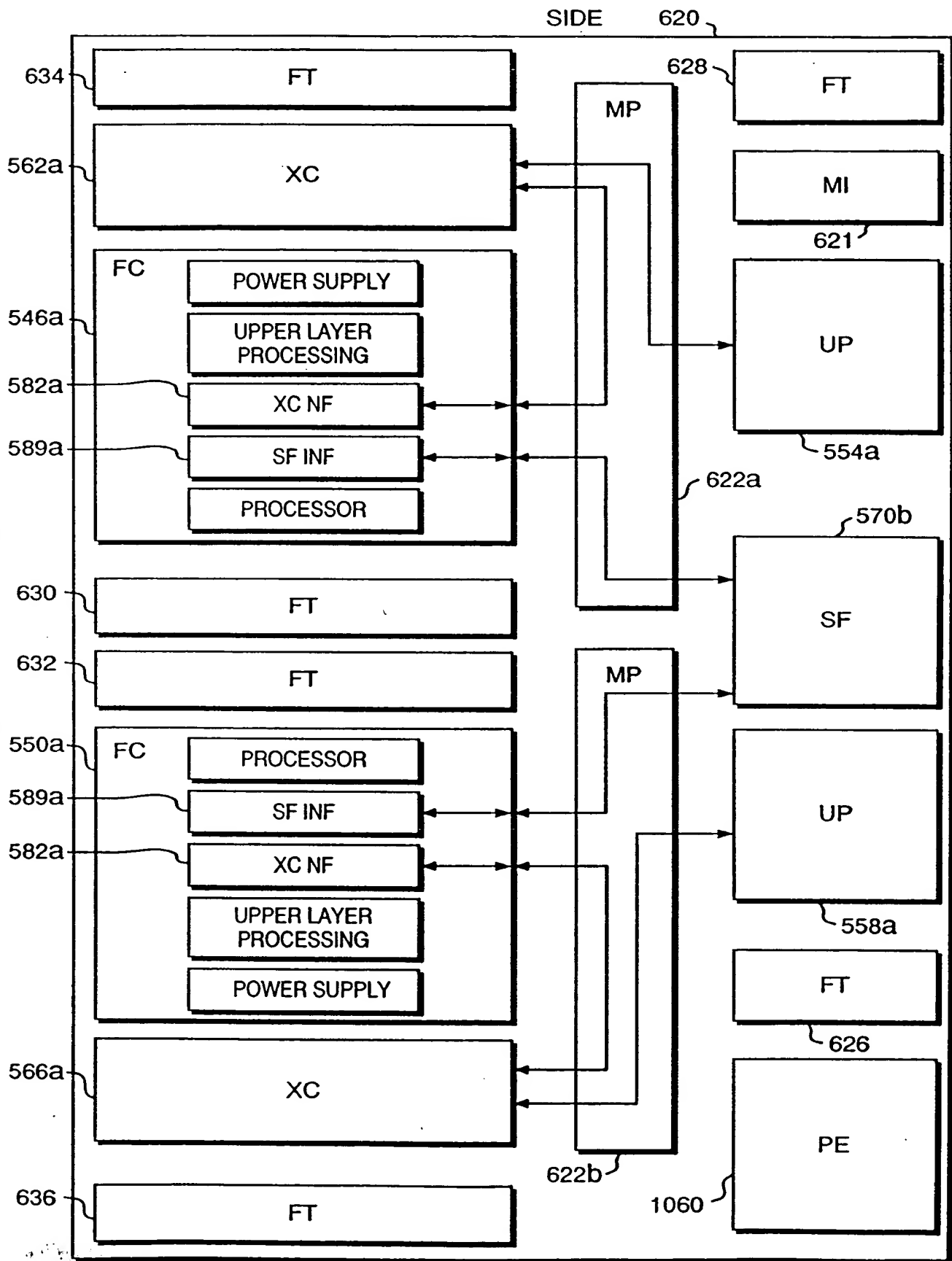


FIG. 41C

FIG. 42A

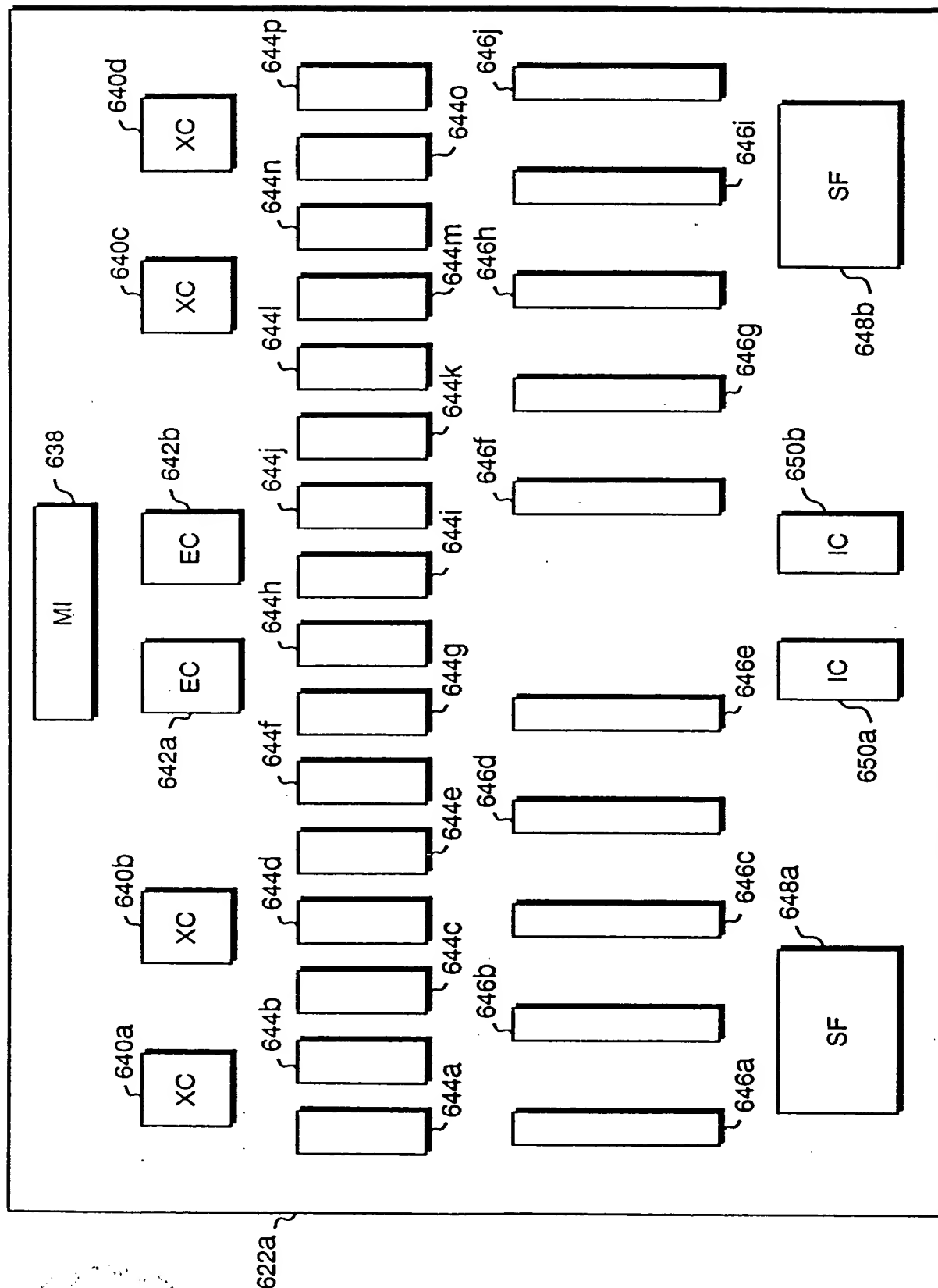


FIG. 42A

FIG. 42B

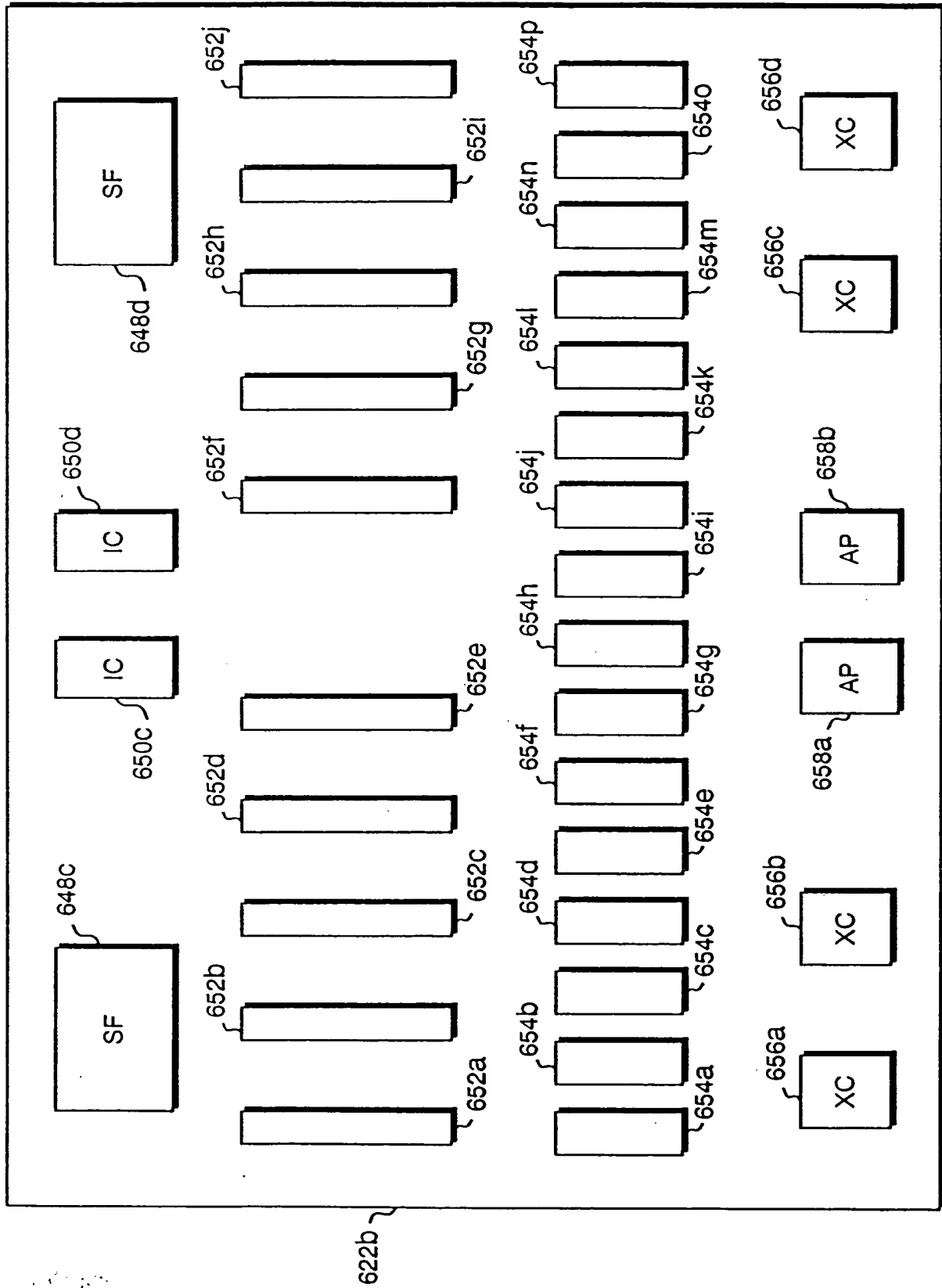


FIG. 42B

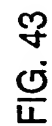


FIG. 43

TOP SECRET

640

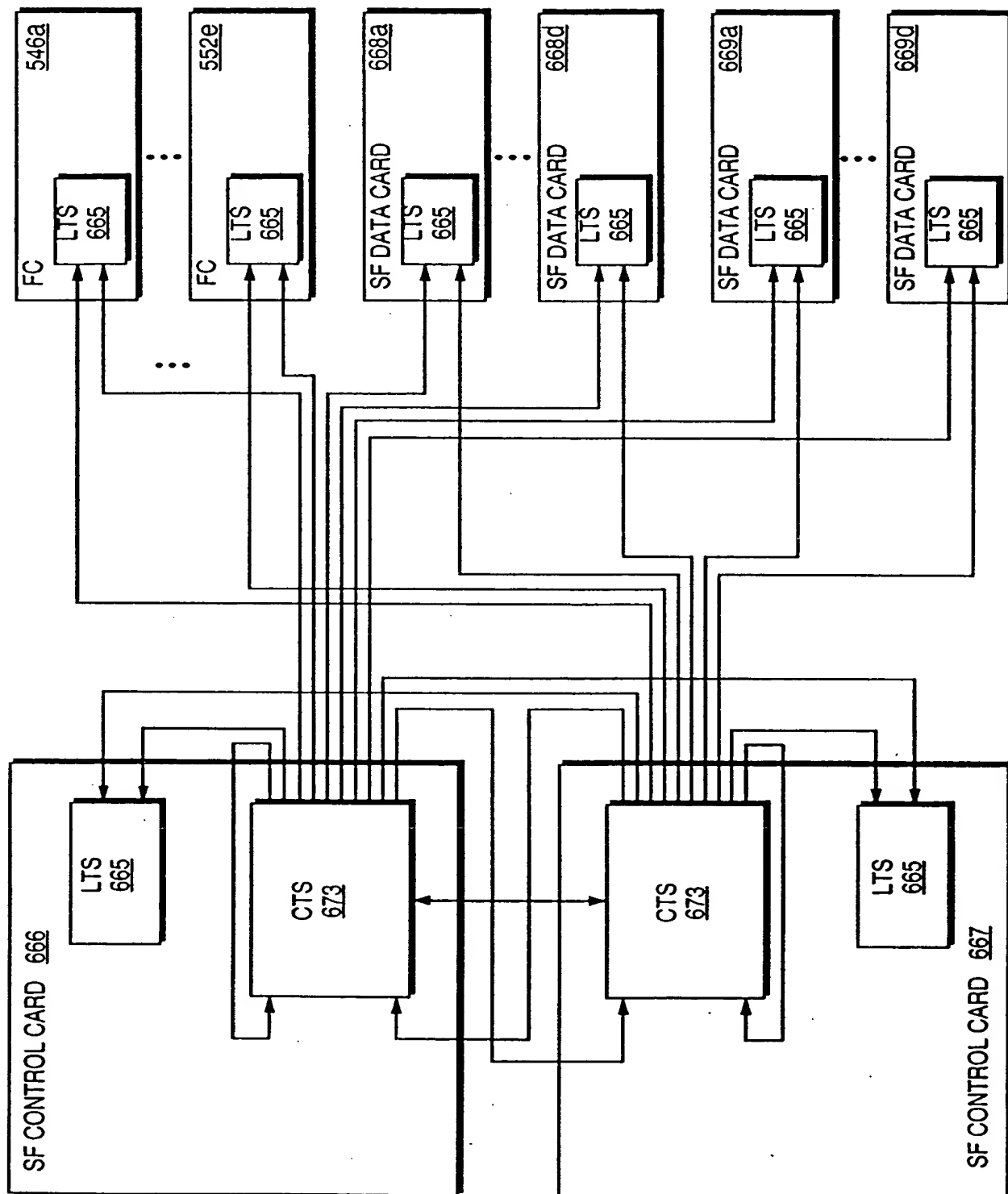


FIG. 44

FIG. 45A

CTS
673

FROM 686
FIG. 45A

FROM 676
FIG. 45A

FROM 693
FIG. 45A

FROM 693
FIG. 45A

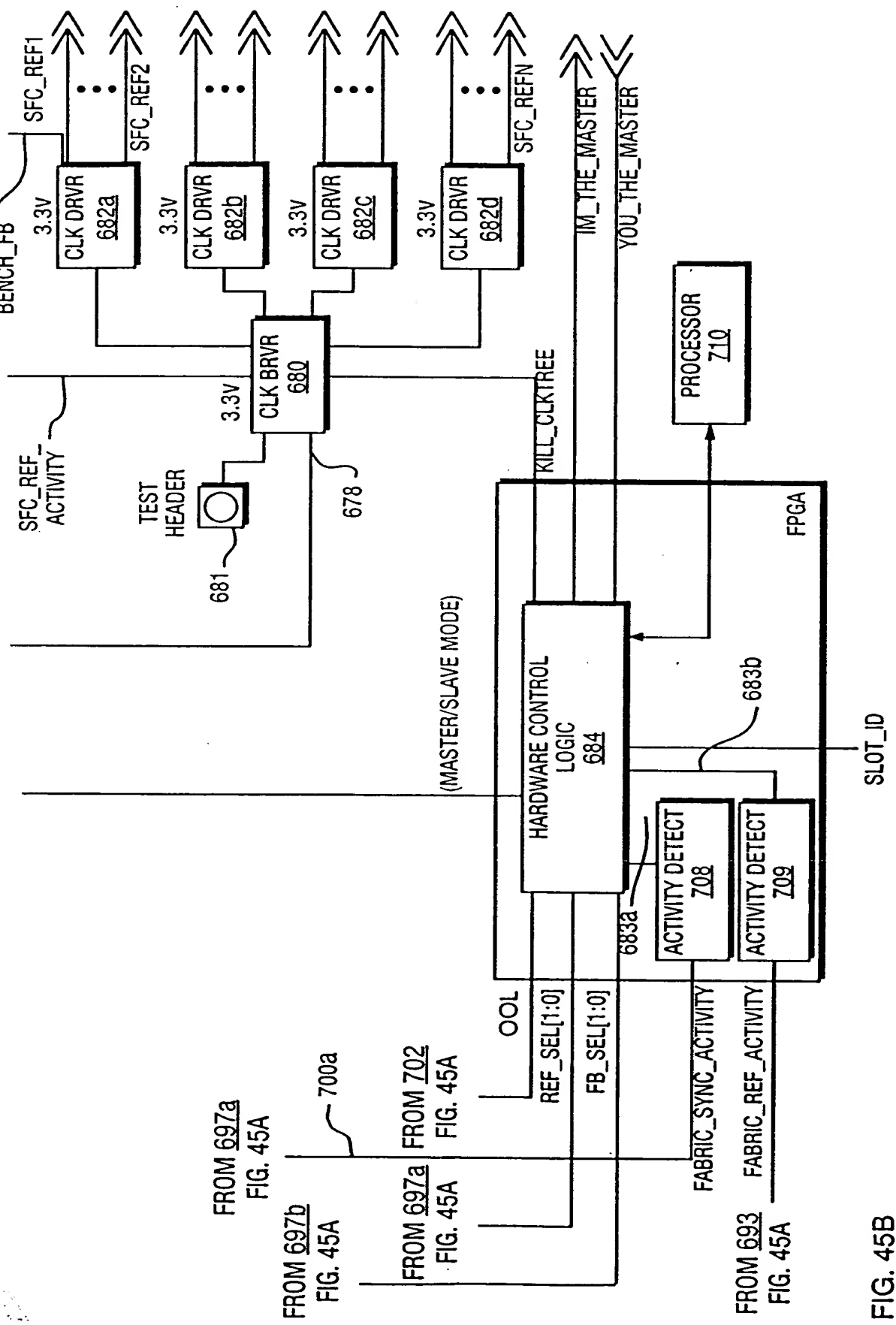


FIG. 45B

TO 680 9E695/60

CTS
673

TO 682a
FIG. 45B

TO 680
FIG. 45B

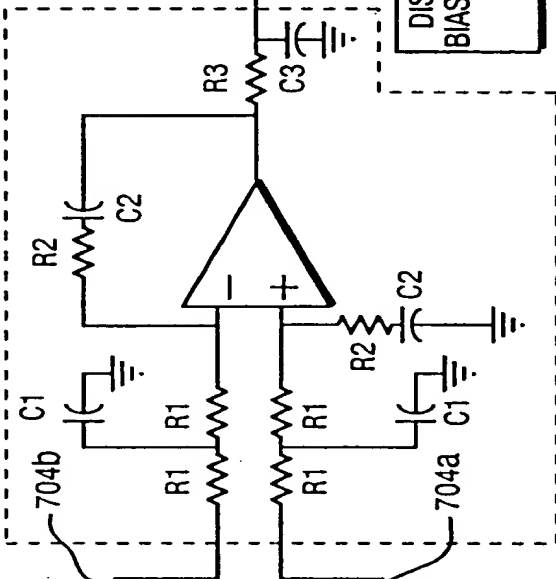
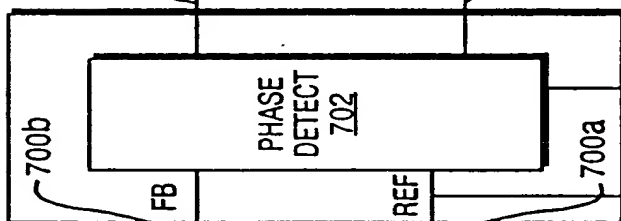
SFC_BENCH_FB

SFC_REF_ACTIVITY

3.3V
FABRIC_REF_ACTIVITY

TO 709
FIG. 45B

3.3V



TO 680
FIG. 45B

3.3V
25MHZ
OSC
676

688b
MUX
686

688a
DISCRETE
BIAS CIRCUIT
690

(MASTER/SLAVE MODE)

TO 684
FIG. 45B

FABRIC_SYNC
_ACTIVITY

TO 708
FIG. 45B

TO 684
FIG. 45B

TO 684
FIG. 45B

FIG. 45A

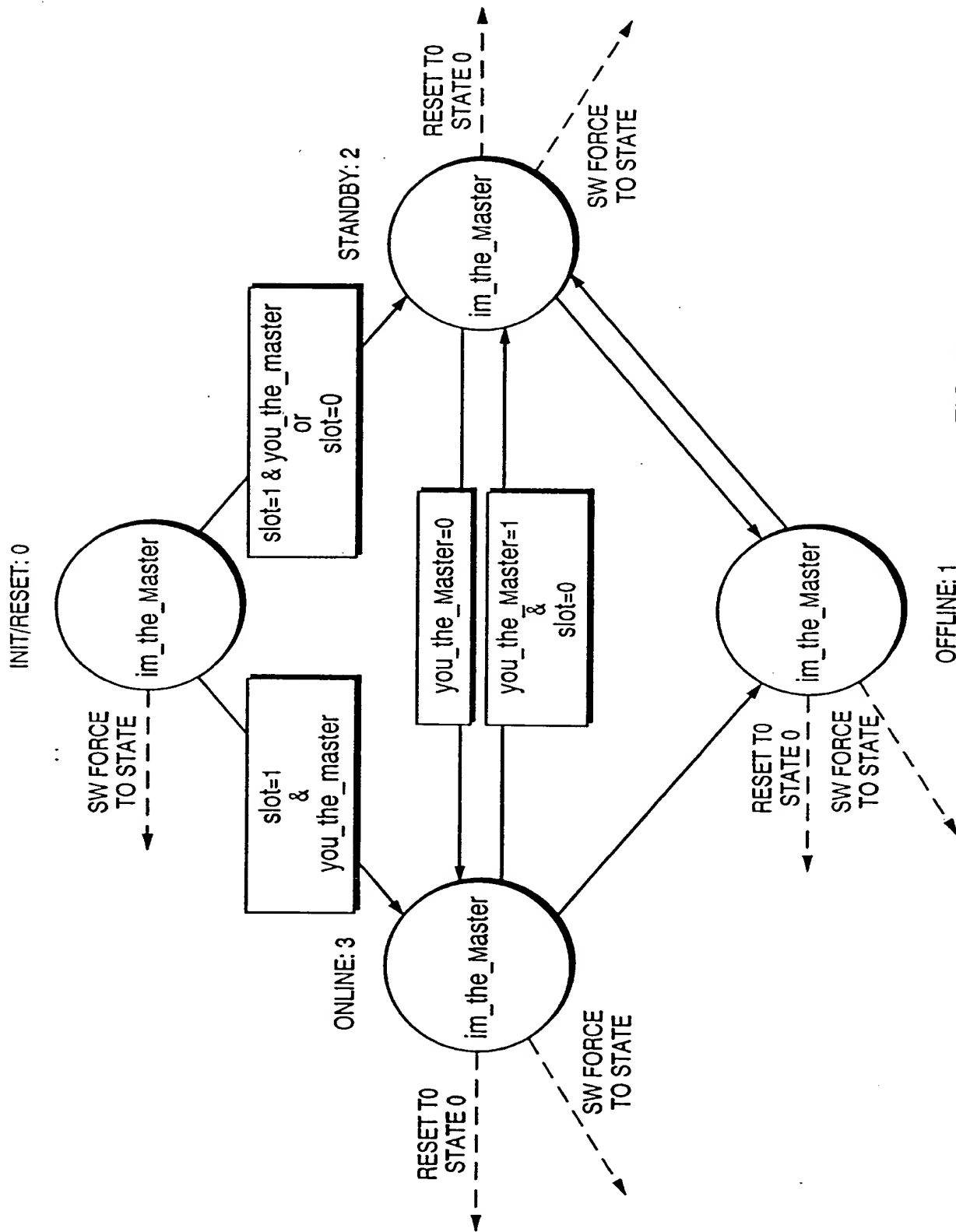


FIG. 46

TO 2280 9695260

LTS
665

SFC_FB

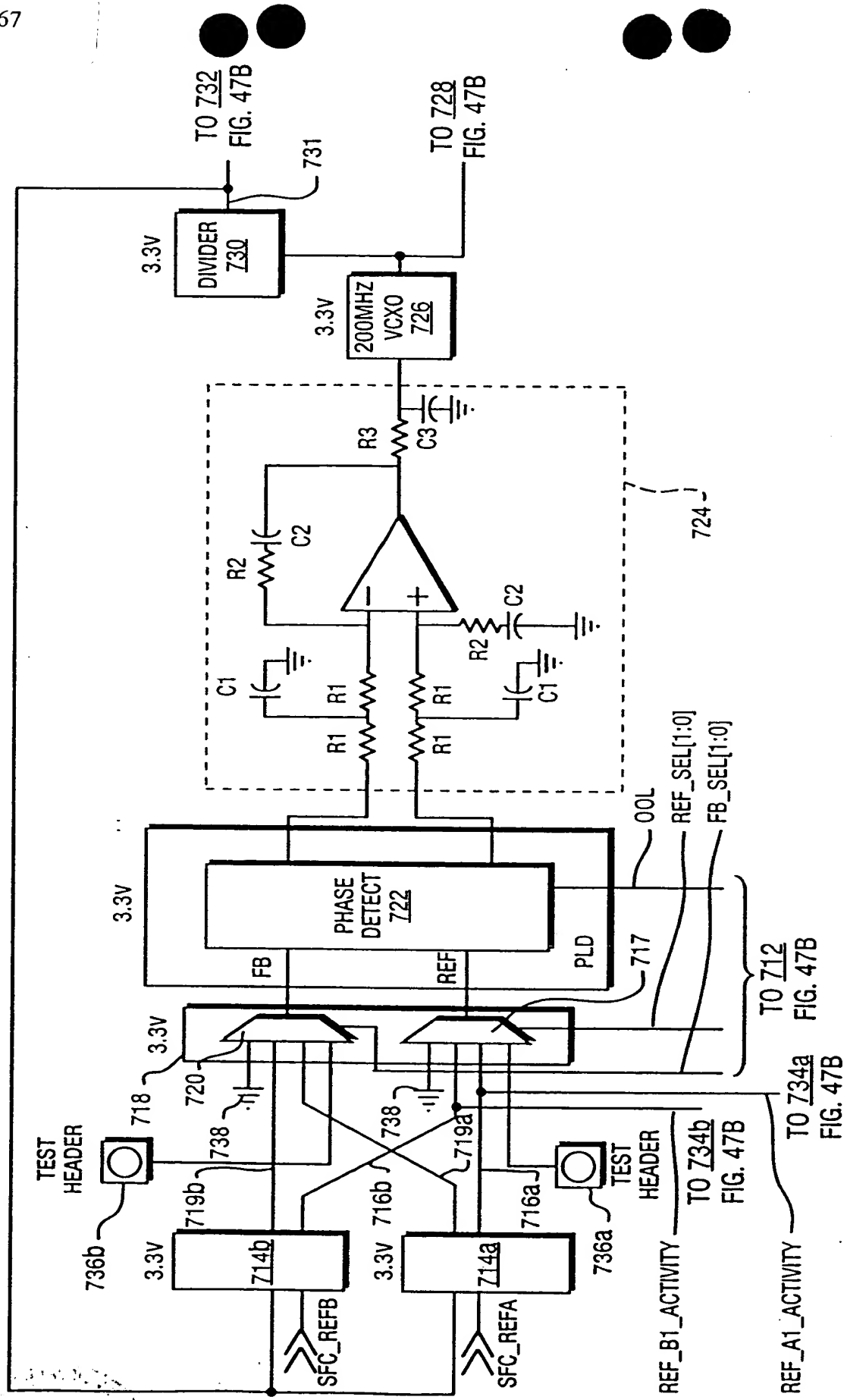


FIG. 47A

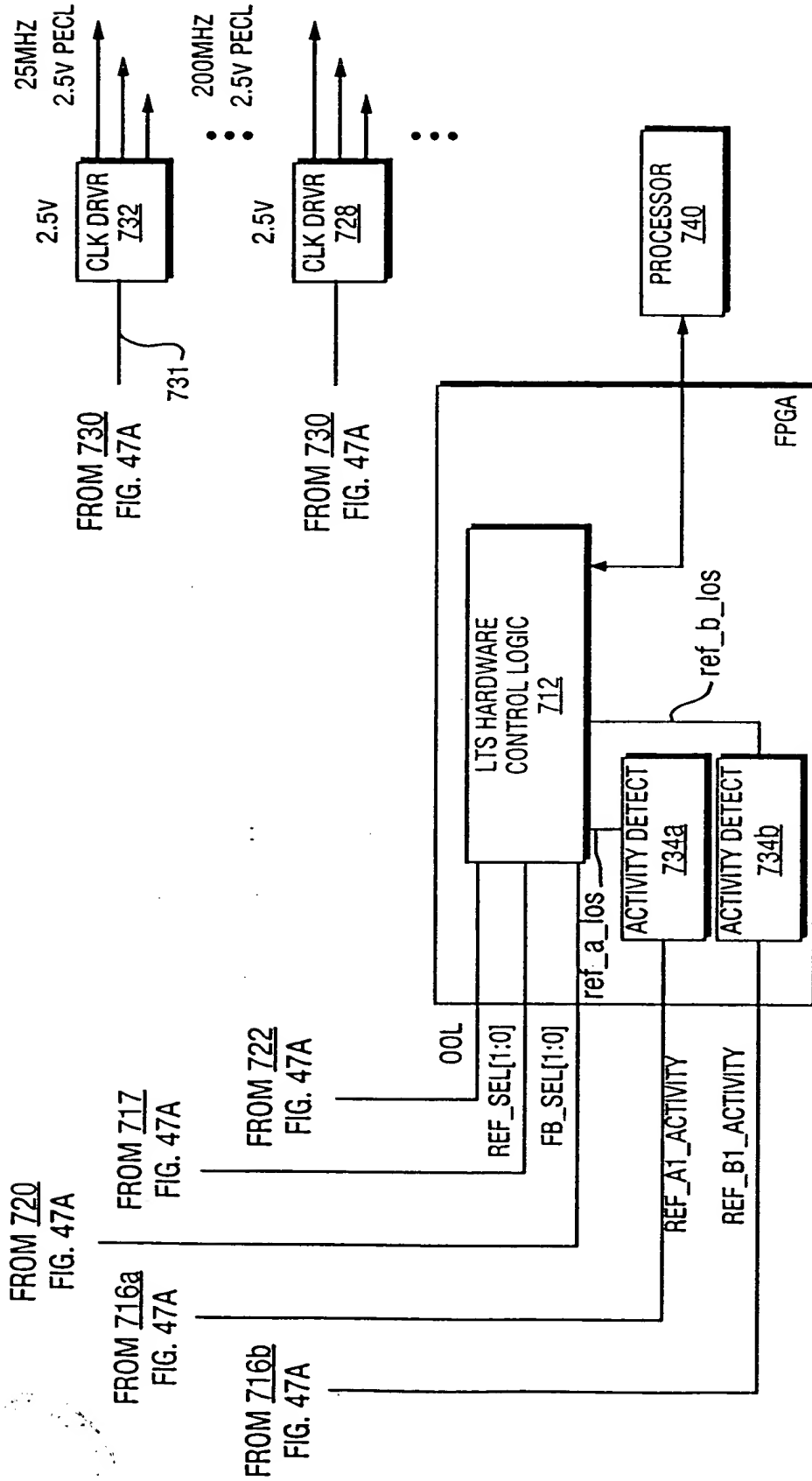


FIG. 47B

FD 220 92695260

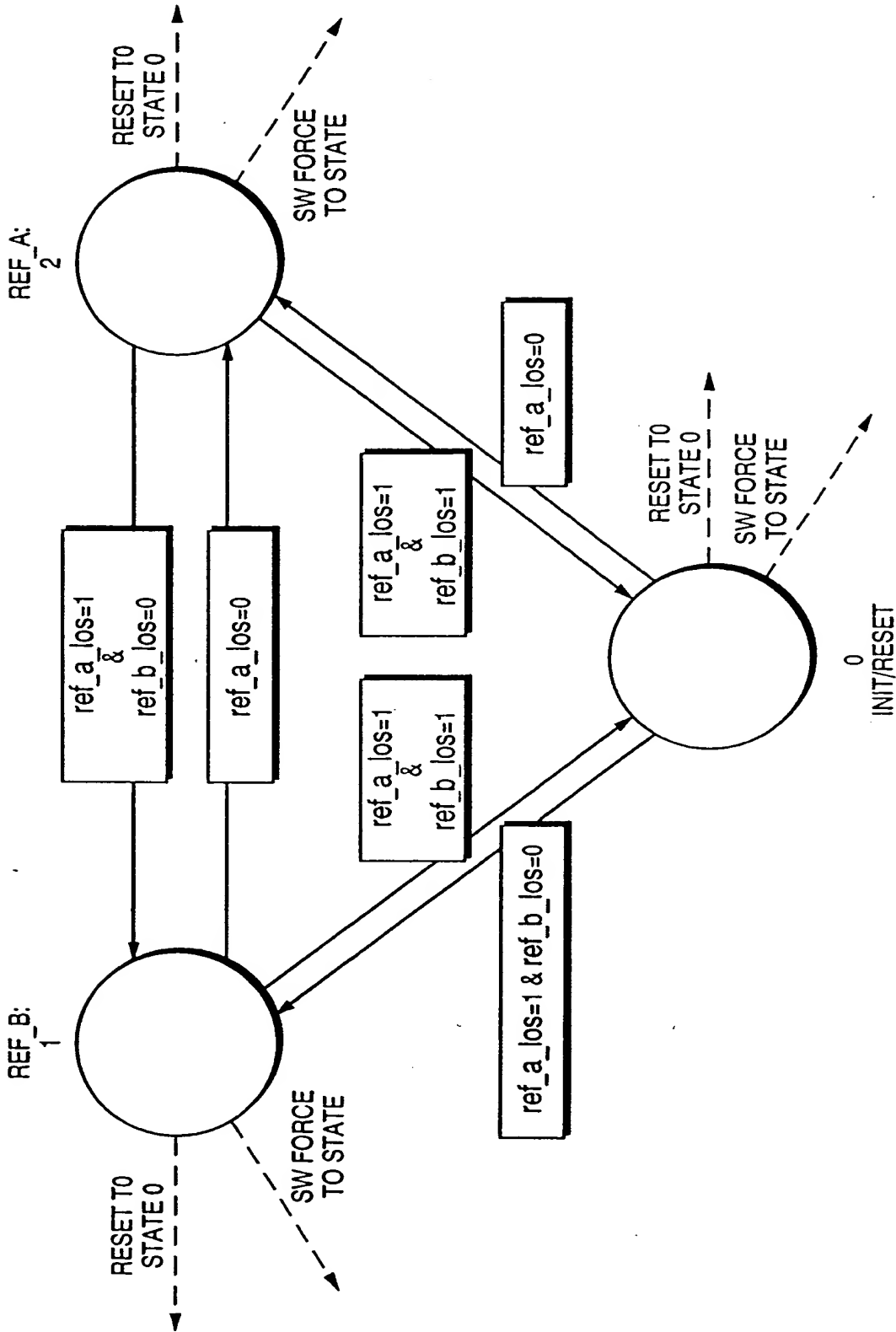


FIG. 48

TOP SECRET 95/60

540

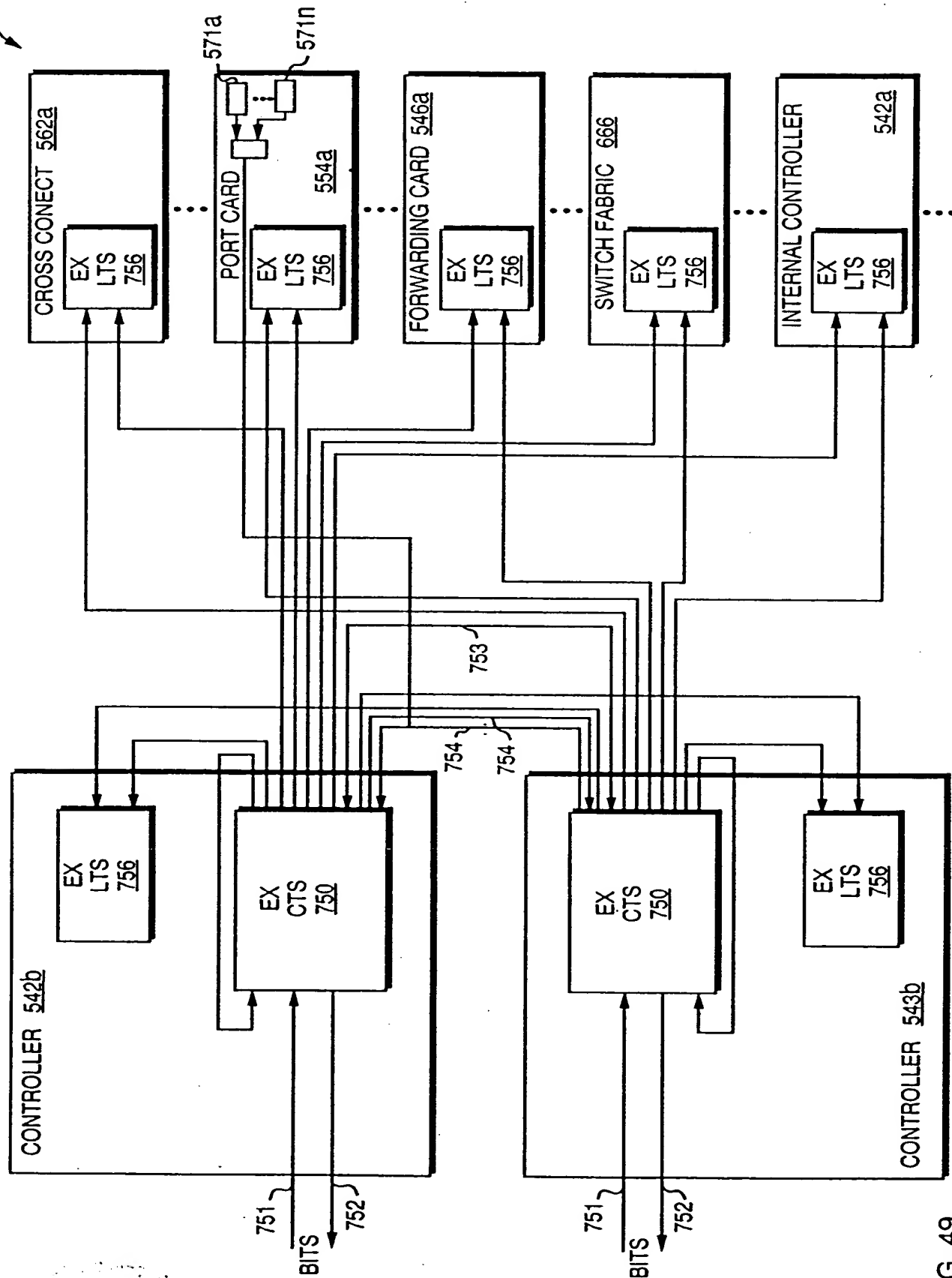
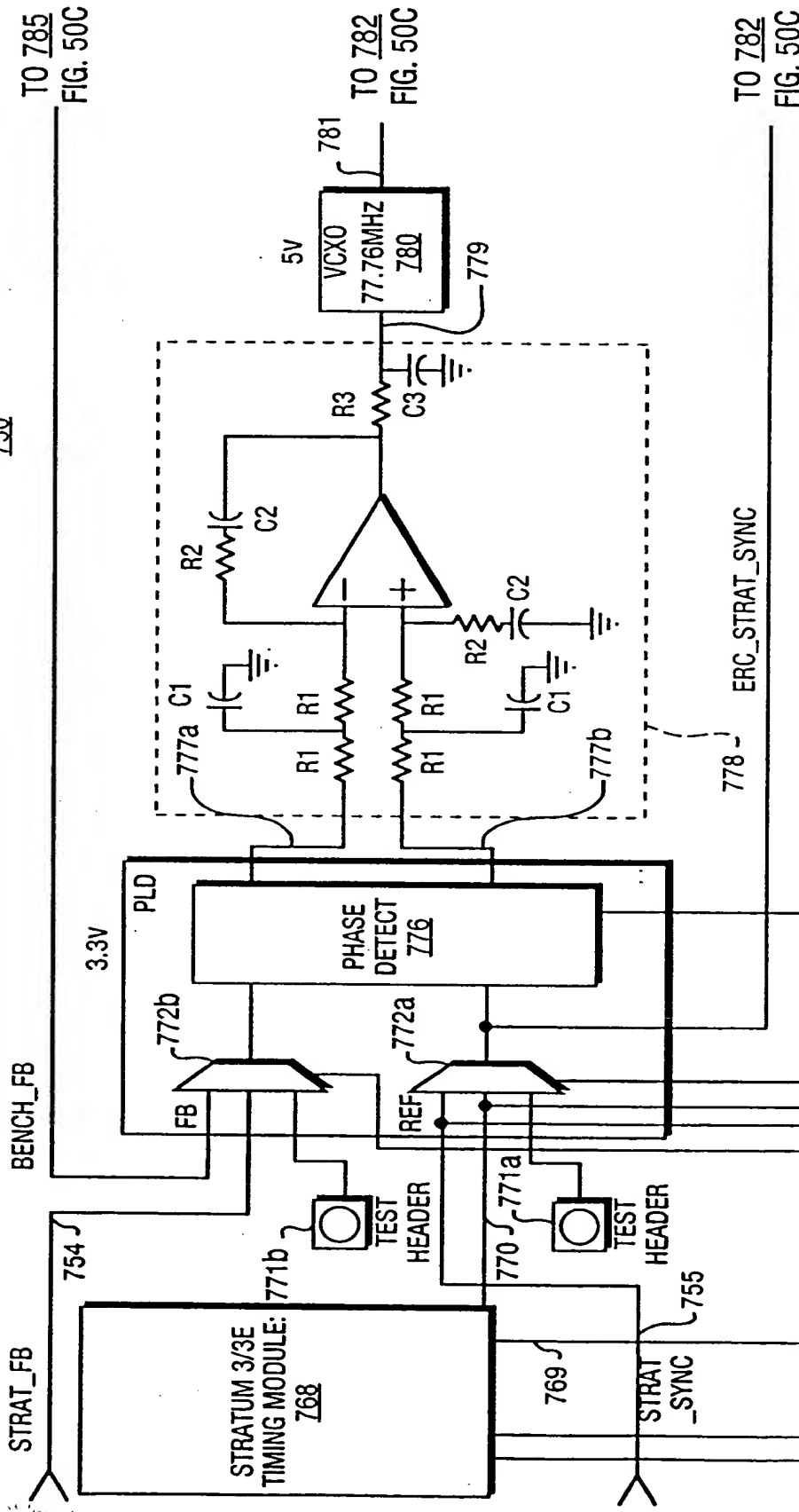


FIG. 49

EX CTS
750



TO
FIG. 50B

FIG. 50A

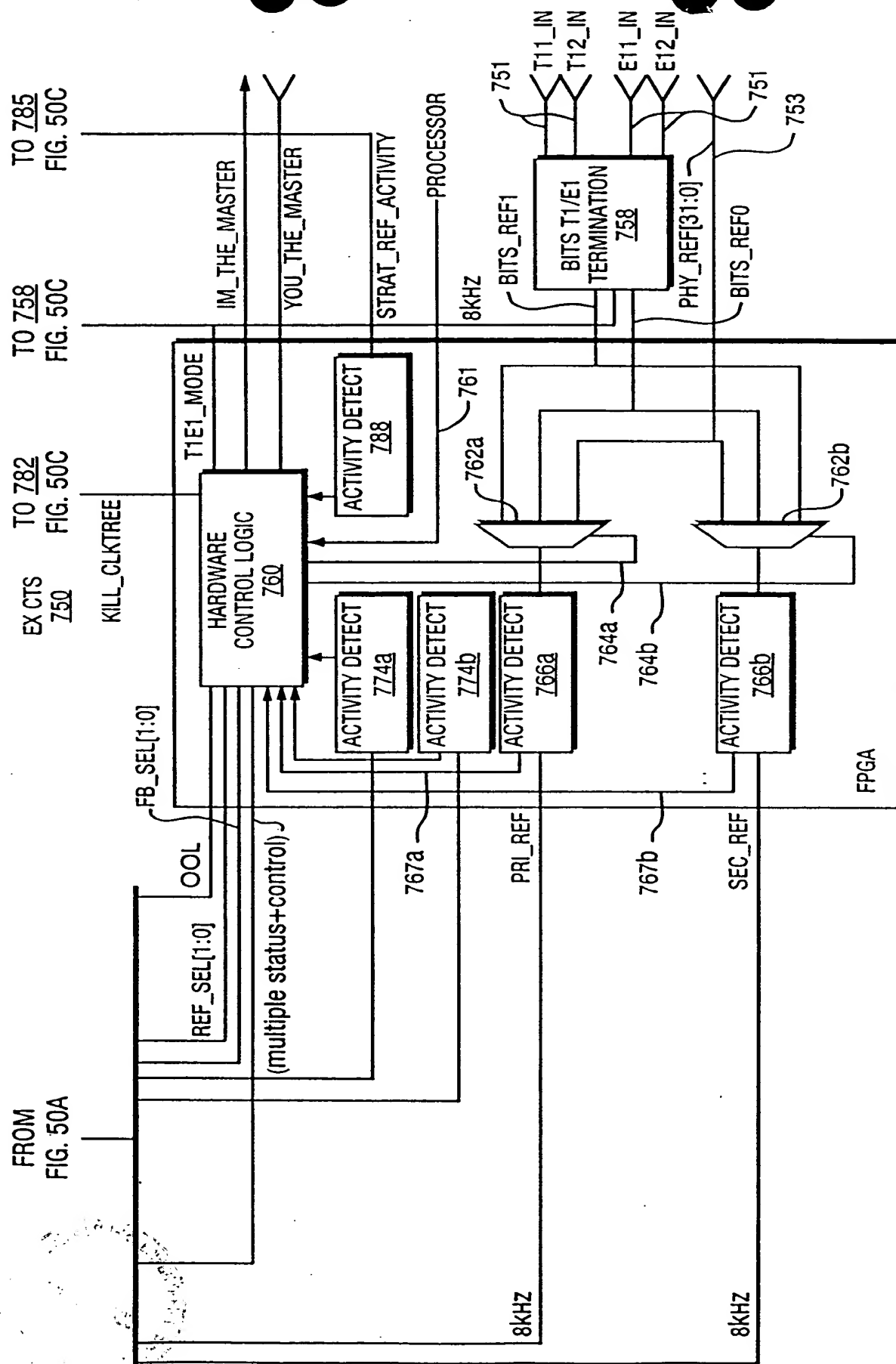


FIG. 50B

FIG. 50C

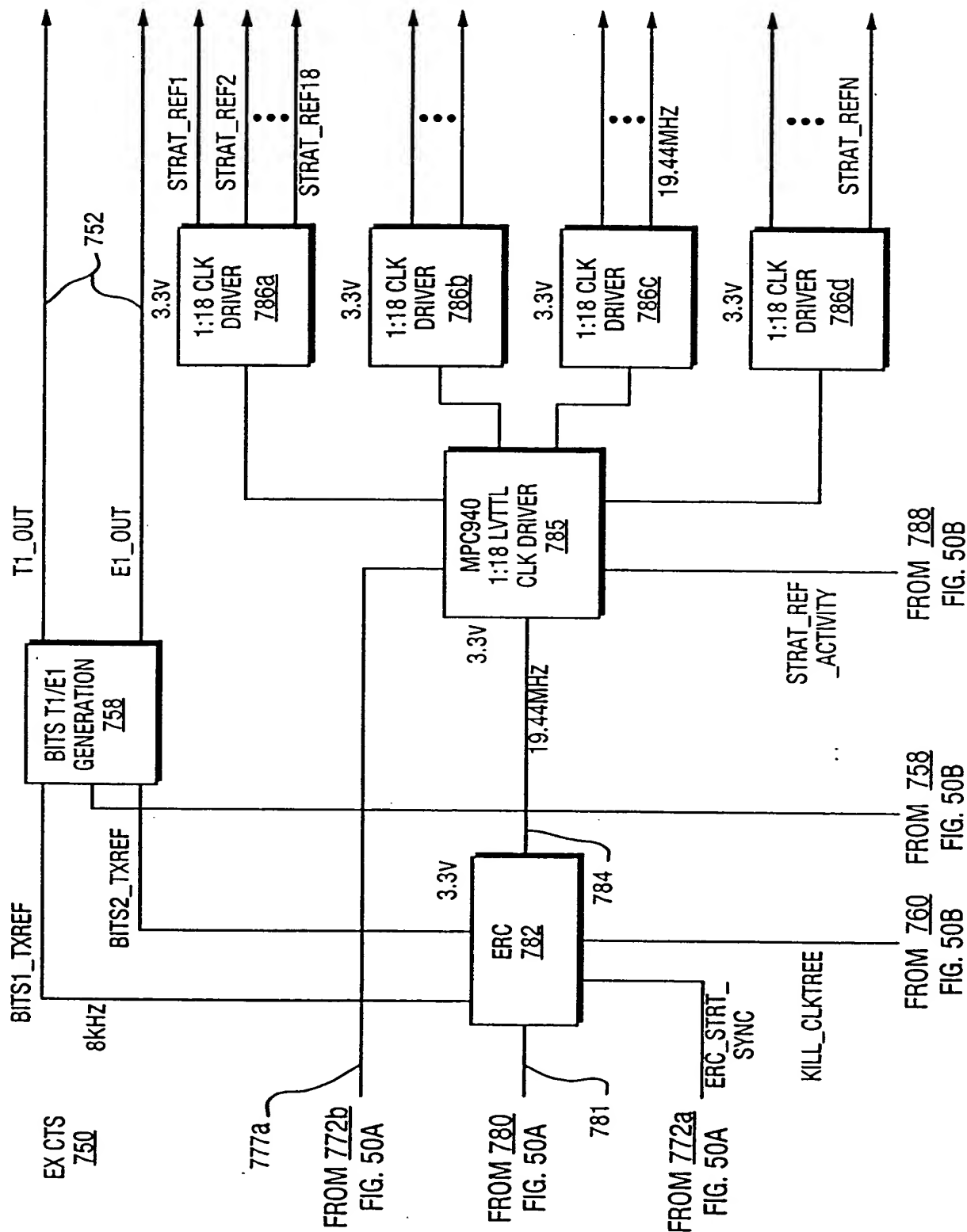


FIG. 50C

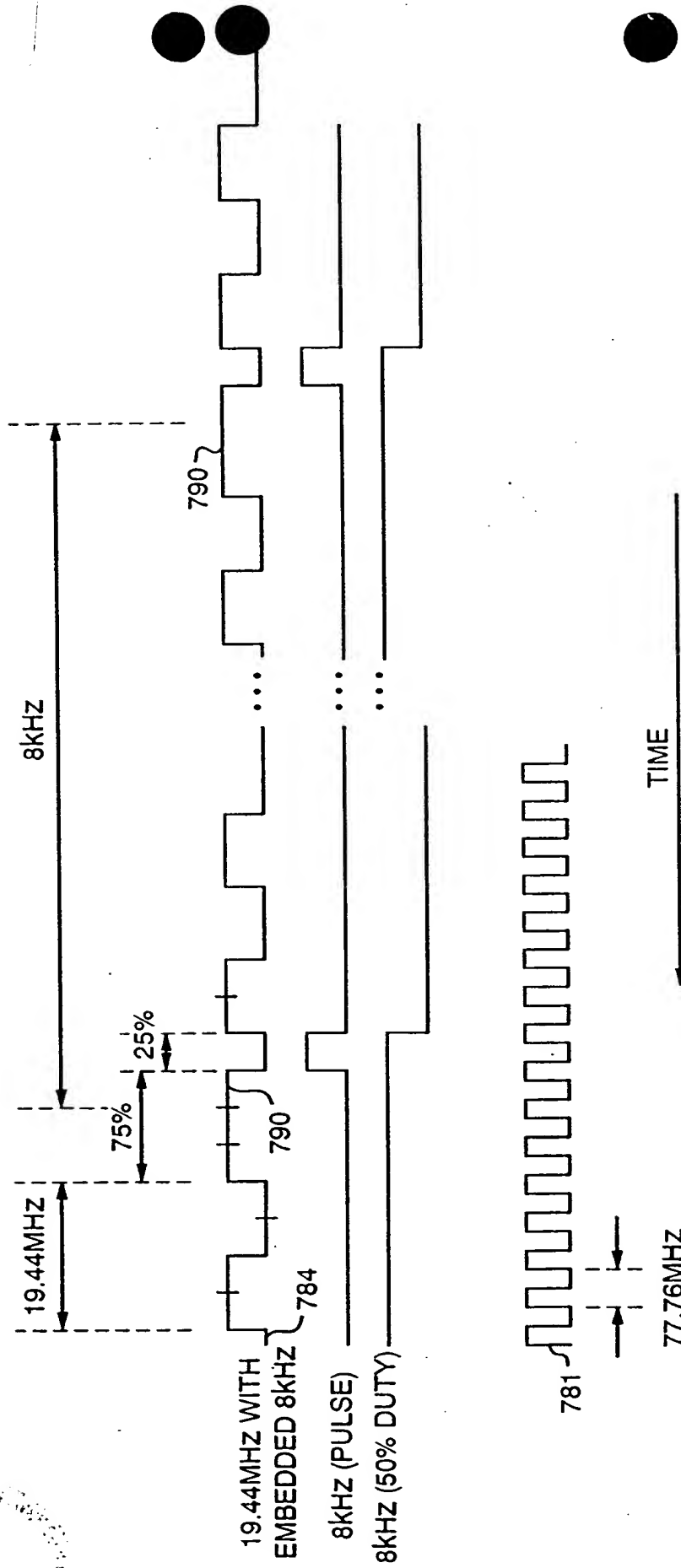


FIG. 51

102689-67

792

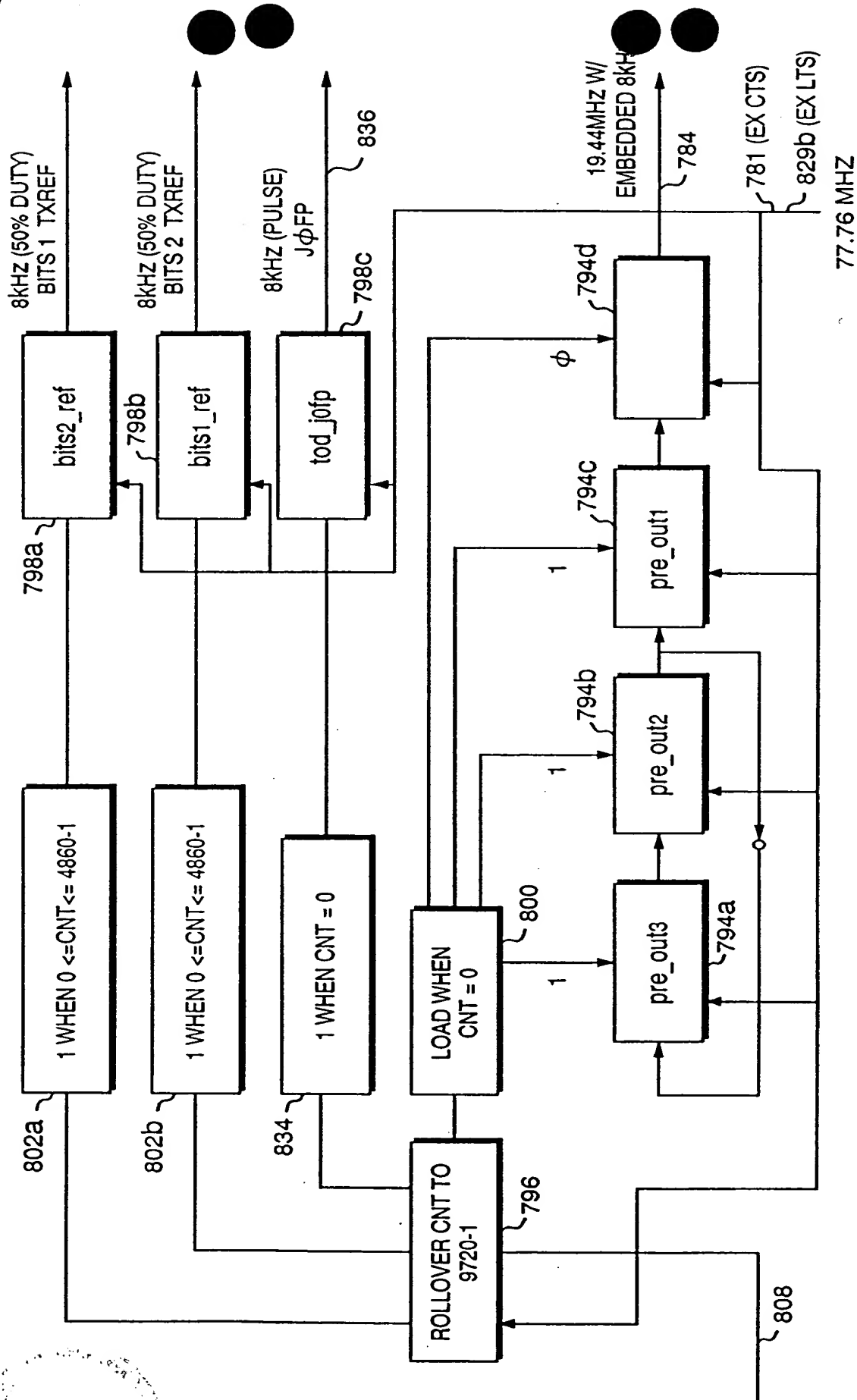


FIG. 52

FOUO 9E695260

EXTRACTOR
804

ERC STRAT SYNC (EX CTS)
STRAT_REF_A OR STRAT_REF_B (EX LTS) 832
19.44MHz WITH ENCLOSED 8kHz
(MUST BE PULLED LOW WHEN NOT PRESENT)

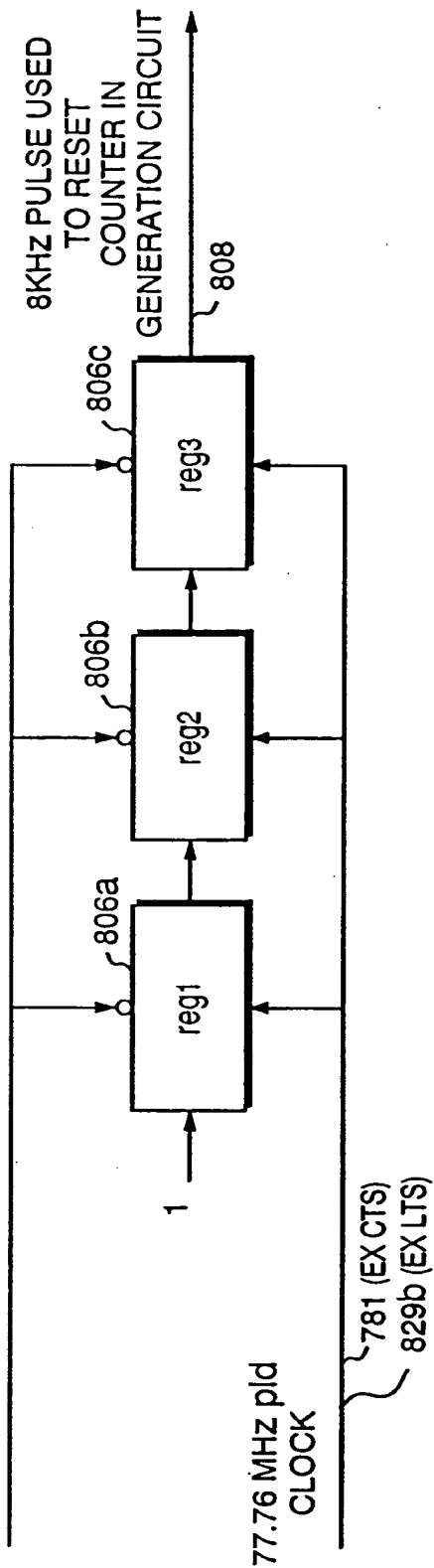


FIG. 53

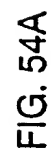


FIG. 54B

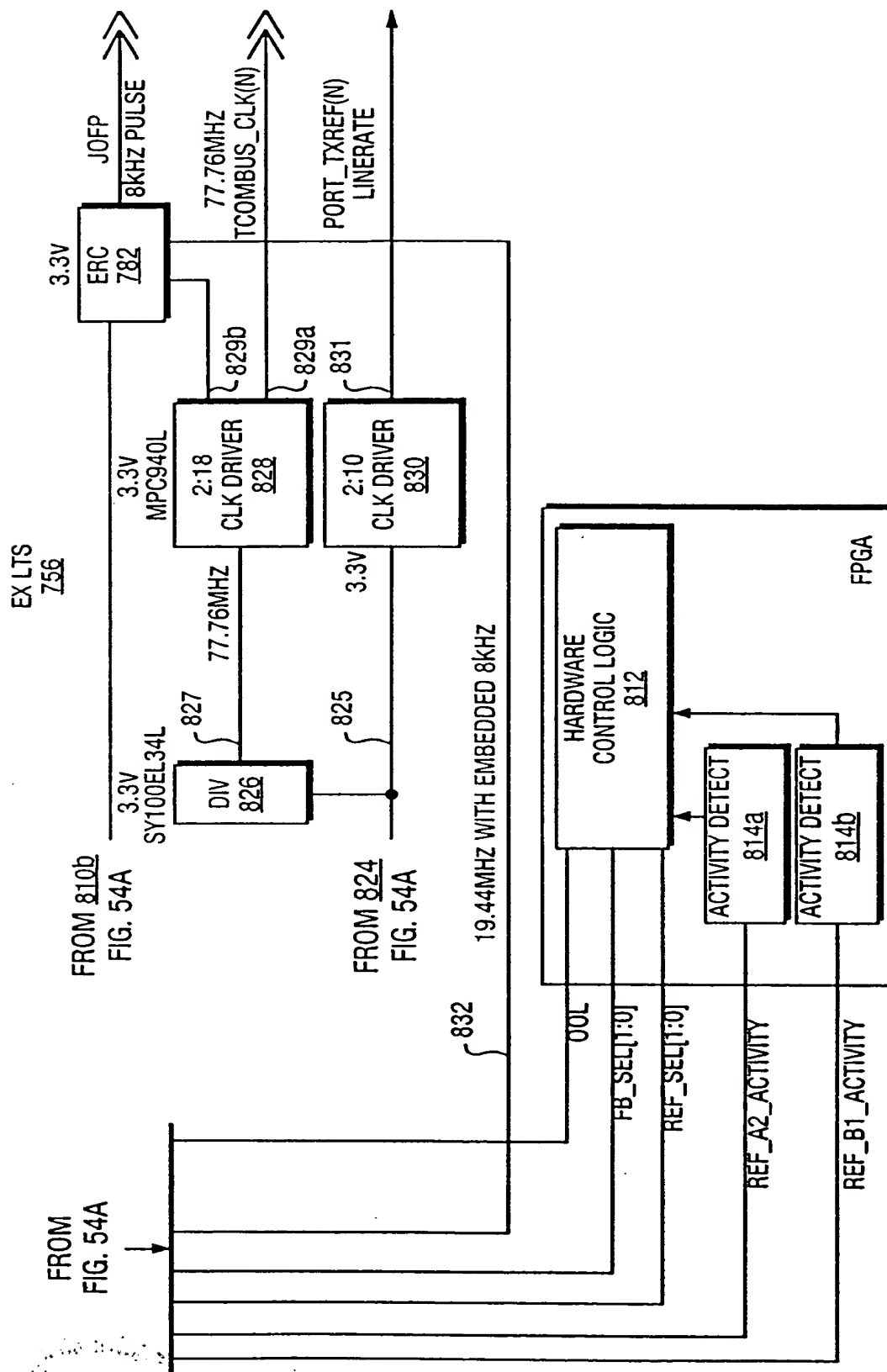


FIG. 54B

TO 280 9E695260

EX CTS
750a

TO 785
FIG. 55C

BENCH_FB

STRAT_FB

STRATUM 3/E
TIMING MODULE:
768

PLD
PHASE
DETECT
776

3.3V

TEST
HEADER

771b

19.44MHZ

770

771a

TEST
HEADER

770

771a

TEST
HEADER

770

771a

ALT INPUT
FROM
OTHER
EX CTS

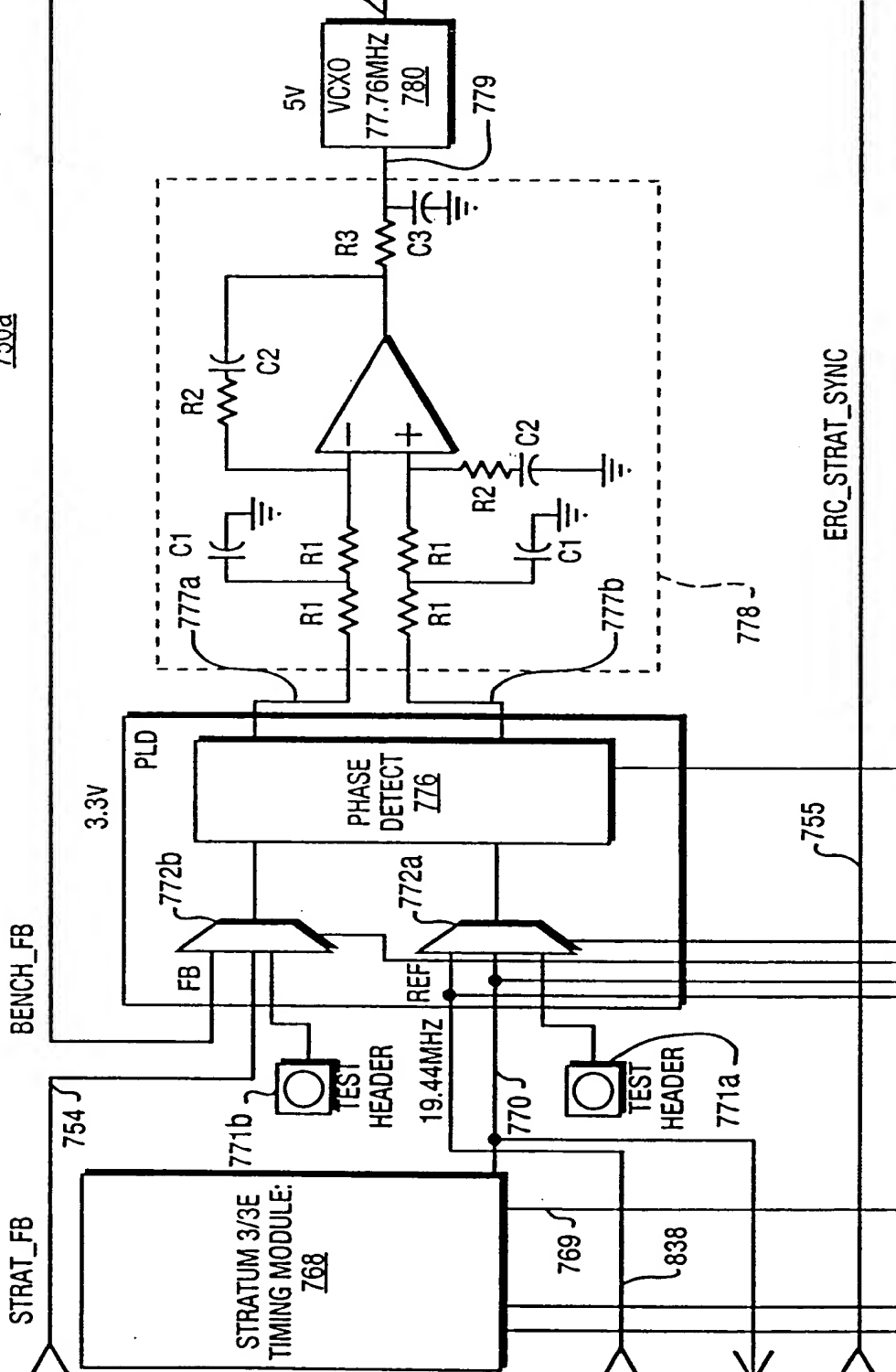
ALT OUPUT
TO OTHER
EX CTS

STRAT
_SYNC

TO

FIG. 55B

FIG. 55A



ERC_STRAT_SYNC

755

TO

FIG. 55B

FIG. 55A

FIG. 55C

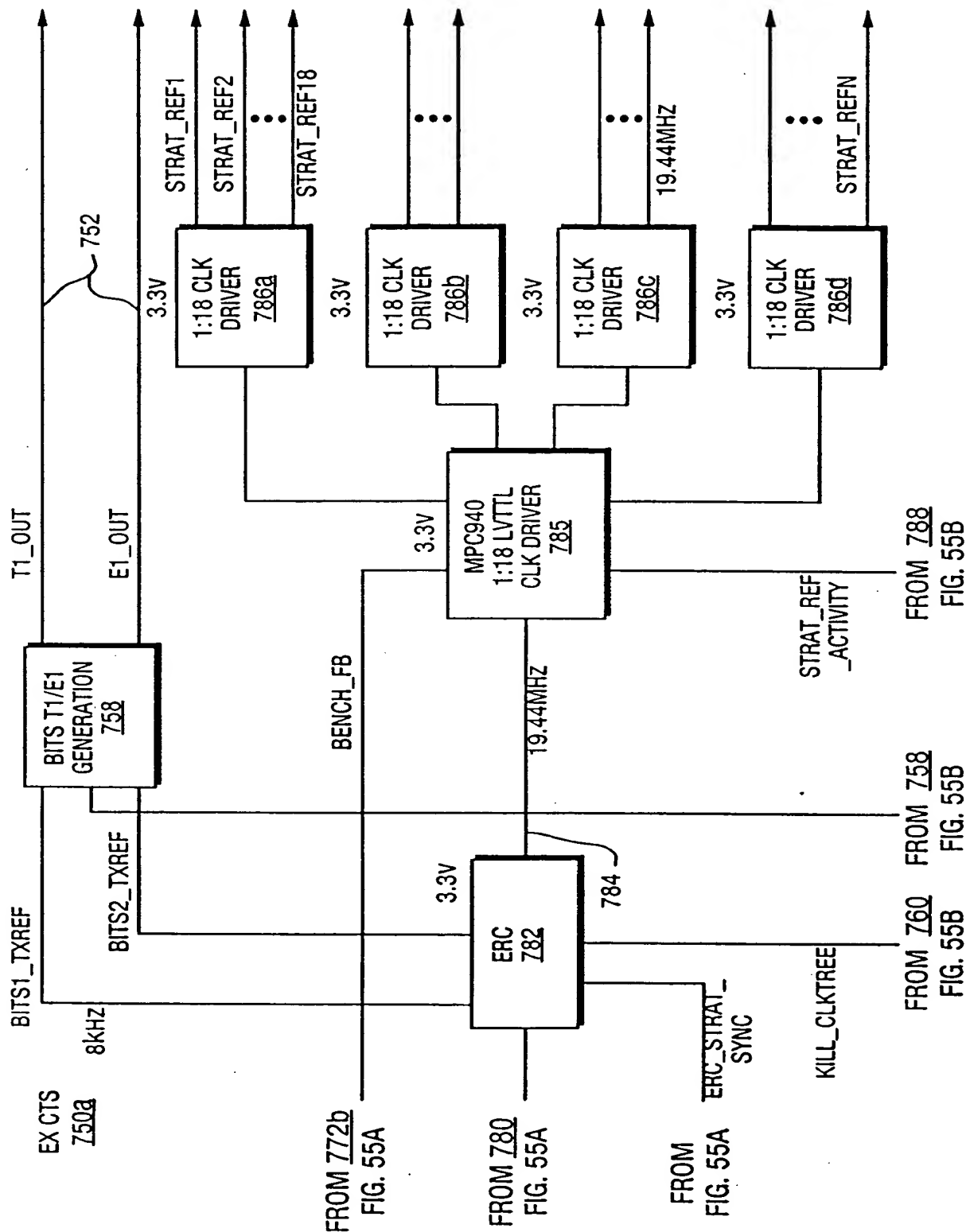


FIG. 55C

TO 2280 9699/60

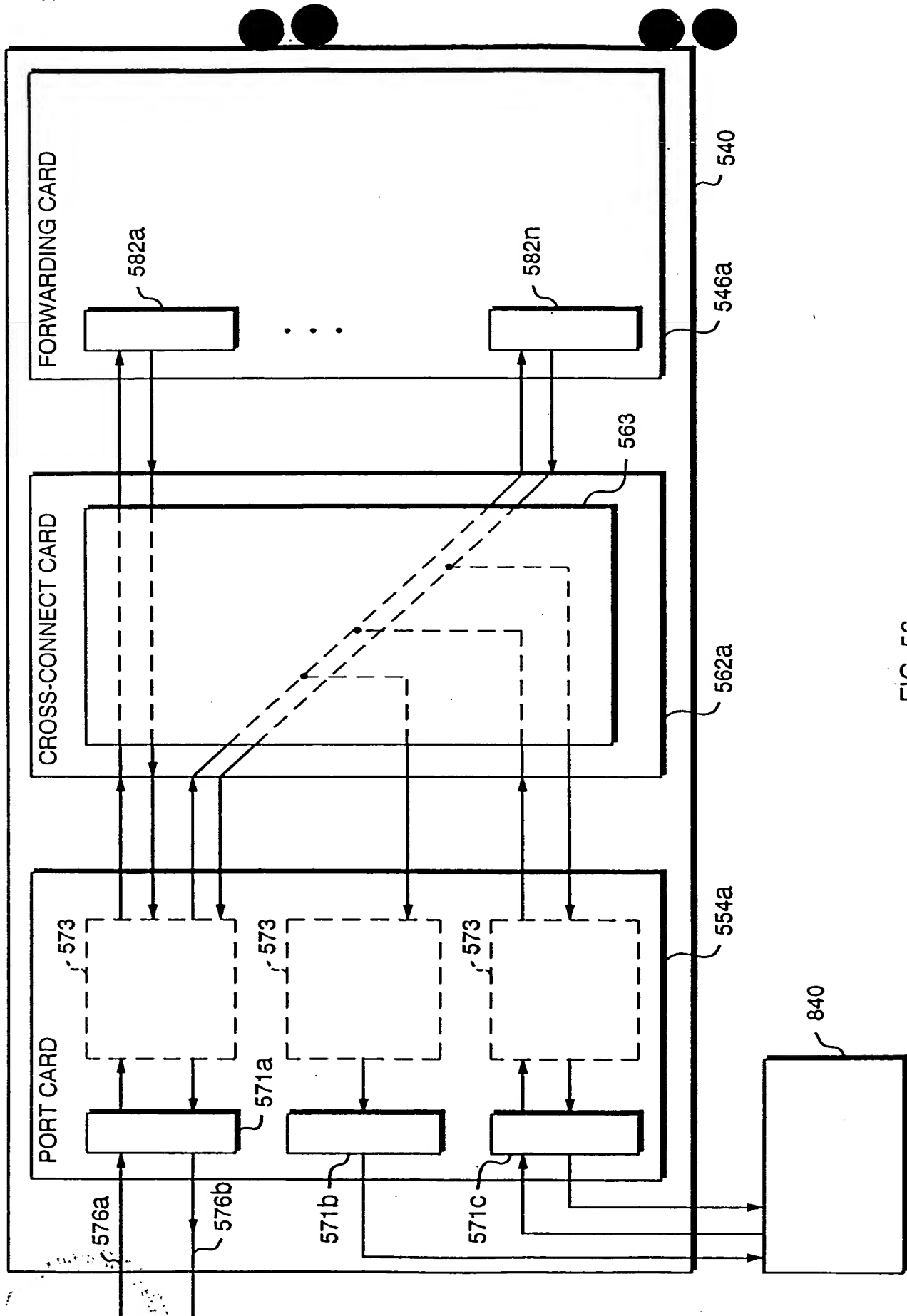


FIG. 56

FOUO 9E595460

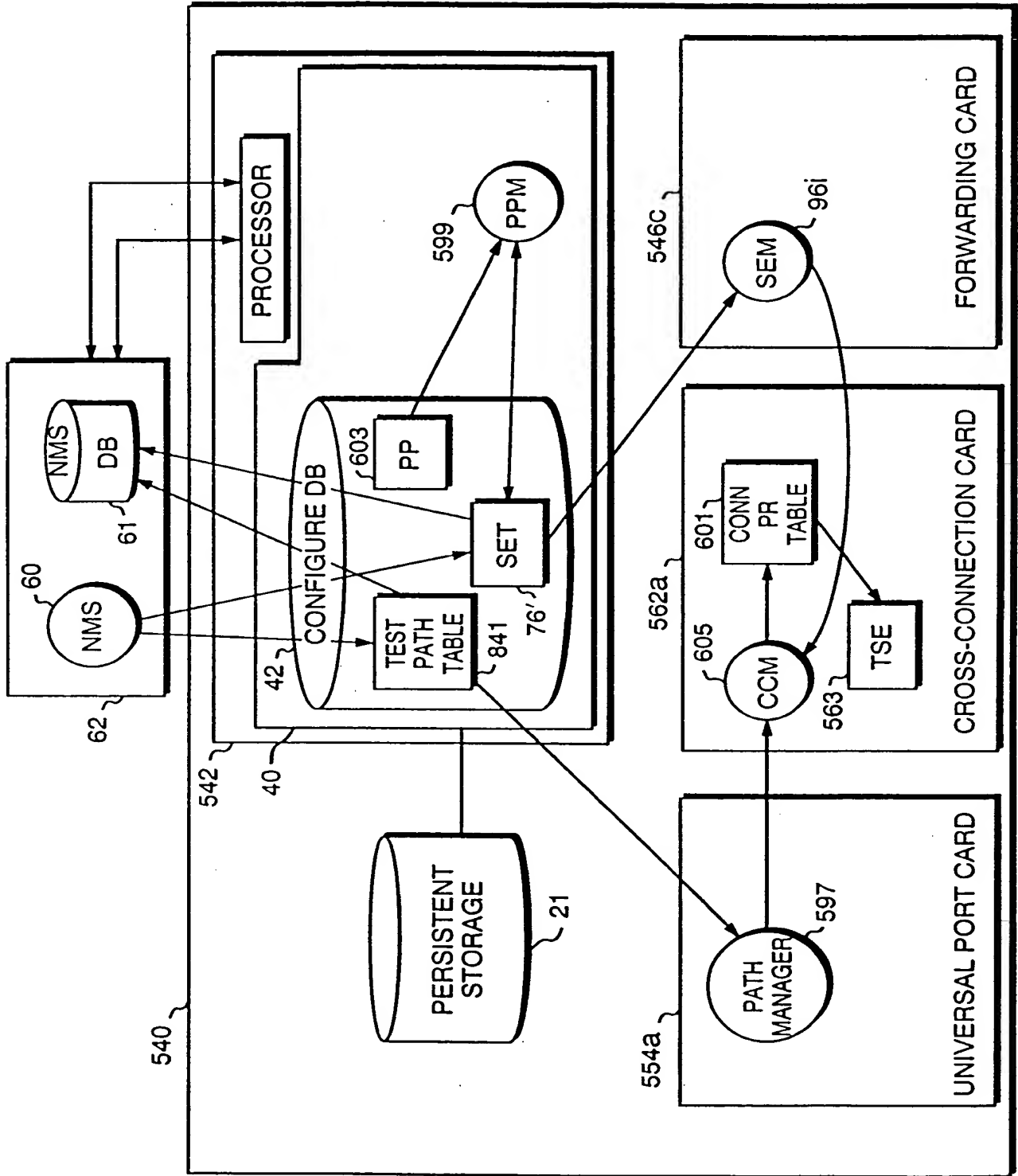


FIG. 57

10/28/90 9:55:55

TEST PATH TABLE 841

842 PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	844		845 ENABLE PORT RECEIVER	...		
				MONITOR	EGRESS				
1666	1232	4	3	INGRESS	NO				
1666	1233	4	3	EGRESS	NO				
1666	1233	4	3	INGRESS	YES				
.			
.			
.			

FIG. 58

FO/2280 92695260

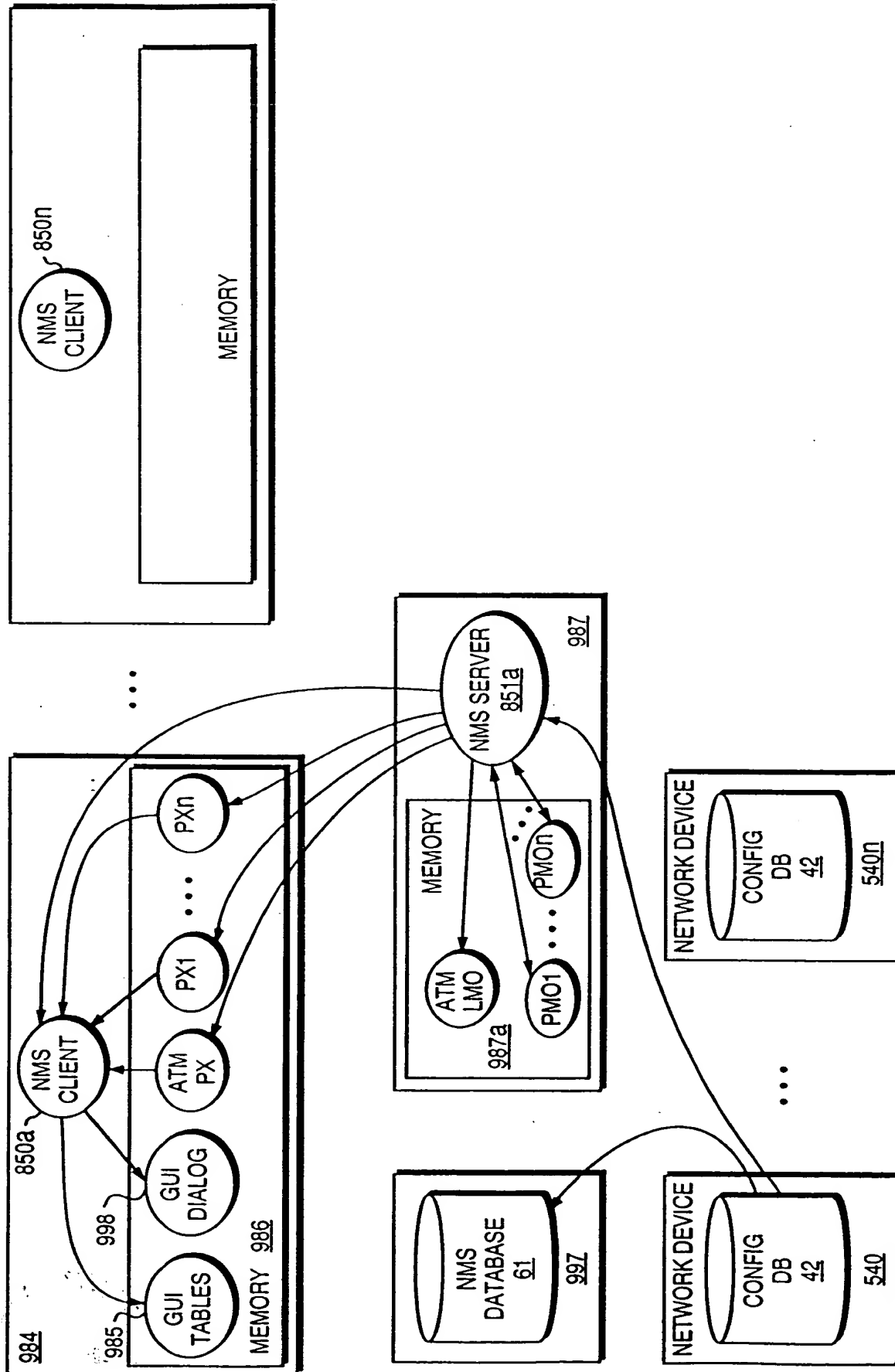


FIG. 59

MANAGED DEVICE TABLE 983

983b	PID	A1	...	An	983a
	1				

FIG 60A

CHASSIS TABLE 988

988b	PID	A1	...	An	MANAGED DEVICE PID	988c
	1				1	988a
	:	:	:	:	:	
	:	:	:	:	:	
	:	:	:	:	:	

FIG 60B

SHELF TABLE 989

989a	PID	A1	...	An	CHASSIS PID	989b
	3				2	
	4				2	
	:	:	:	:	:	
	:	:	:	:	:	
	:	:	:	:	:	
	18				2	

FIG 60C

SLOT TABLE 990

990a	PID	A1	...	An	SHELF PID	990b
990c	20				3	
	21				3	
	:	:	:	:	:	
	:	:	:	:	:	
990d	116				18	

FIG 60D

10/28/2009 9:55:54 AM

CARD TABLE 47'

47a	47b			
	PID	CWD TYPE	VERSION NO.	SLOT PID
	120	0XF002	3	20
	121	0XF002	4	21

	124	0X6002	1	24

	131	0XF002	1	31

FIG 60E

PORT TABLE 49'

49a	49b			
	PID	PORT TYPE	VERSION NO.	CARD PID
	300	00620	1	20
	301	00620	1	20
	302	00620	1	20
	303	00620	1	20
	304	00820	1	20

	400	00620	1	39

FIG 60F

0956936 08270
 102689-67

SONET PATH TABLE 600'

600a	600b			
	PATH LID	PORT LID	TIME SLOT	# OF TIME SLOTS
	901	304	4	3
	⋮	⋮	⋮	⋮

FIG. 60G

SERVICE ENDPOINT TABLE 76''

76a	76c		76d		76e		76b	
	SE LID	Q #	FC PID	FC SLICE PID	FC TIME SLOT	PATH LID	...	
	3000					901		
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	

FIG. 60H

ATM IF TABLE 114''

114a	114b		
	ATM IF LID	ATM GROUP LID	SE LID
	5054		3000
	⋮	⋮	⋮

FIG. 60I

T02280-92695/60

VIRTUAL ATM IF TABLE 993

993a	LID	A1	...	An	ATM IF LID	993b
	7489				5054	
	⋮	⋮	⋮	⋮	⋮	
	⋮	⋮	⋮	⋮	⋮	
	⋮	⋮	⋮	⋮	⋮	

FIG 60J

VIRTUAL CONNECTION TABLE 994

994a	LID	A1	...	An	VIR. ATM IF LID	994b
	⋮	⋮	⋮	⋮	⋮	
	⋮	⋮	⋮	⋮	⋮	
	⋮	⋮	⋮	⋮	⋮	

FIG 60K

VIRTUAL LINK TABLE 995

995a	LID	A1	...	An	VIR. CONN. LID	995b	995c
	⋮	⋮	⋮	⋮	⋮		⋮
	⋮	⋮	⋮	⋮	⋮		⋮
	⋮	⋮	⋮	⋮	⋮		⋮

FIG 60L

CROSS-CONNECT TABLE 996

996a	LID	A1	...	An	VIR. LINK1 LID	996b	996c
	⋮	⋮	⋮	⋮	⋮		⋮
	⋮	⋮	⋮	⋮	⋮		⋮
	⋮	⋮	⋮	⋮	⋮		⋮

FIG 60M

ATM NODE TABLE 999

999a	LID	A1	...	An	999b	999c
	5000				MANAGED DEVICE PID	
					1	

FIG 60N

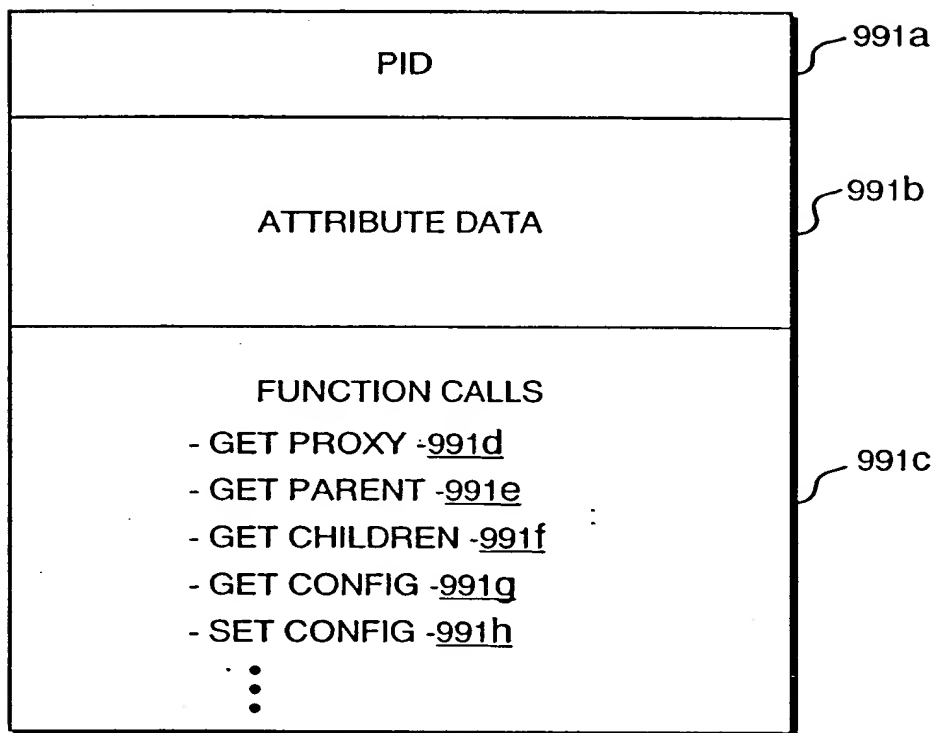
PHYSICAL MANAGED OBJECT 991

FIG. 61A

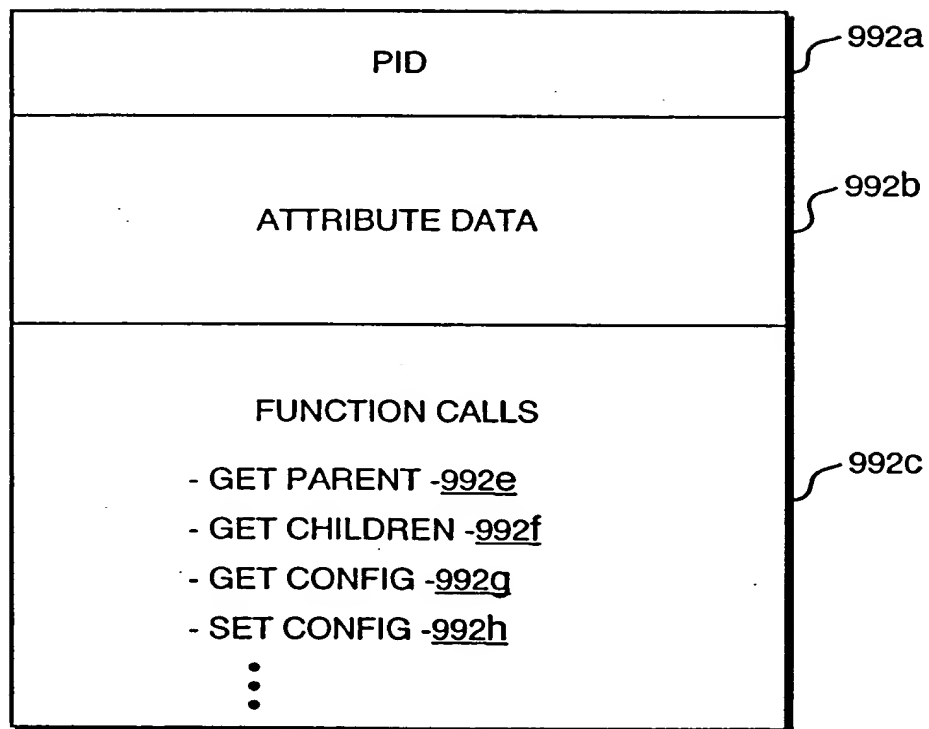
PROXY 992

FIG. 61B

102689-67

997

EvailNet Manager: Modify SONET Path - Shelf 11/Slot4/Port 1

X

SONET Path Parameters

System: 192.168.9.202

Path Name

Path1_11/4/1

Path Number

1

Path Width

STS-3c

Path Type

Terminated-ATM

Connection Information

Connected SONET Path

☒ None
 ☐ Specific

Paths...

ATM Interface Name

Modules

OK

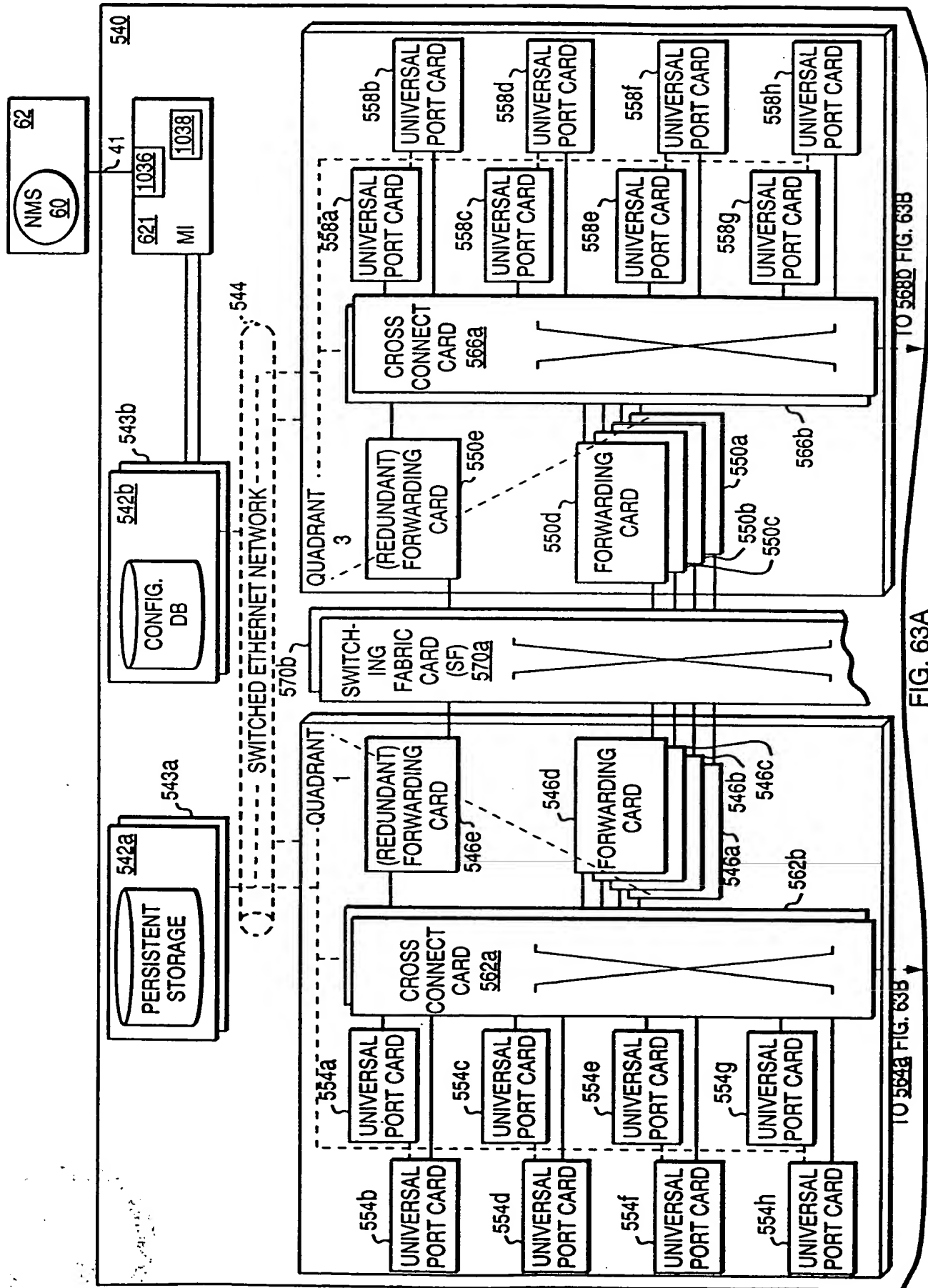
Cancel

997a

998b

FIG. 62

TO 280-9695260



TO 5880 FIG. 63B

FIG. 63A

TO 5848 FIG. 63B

FO2280 9E695260

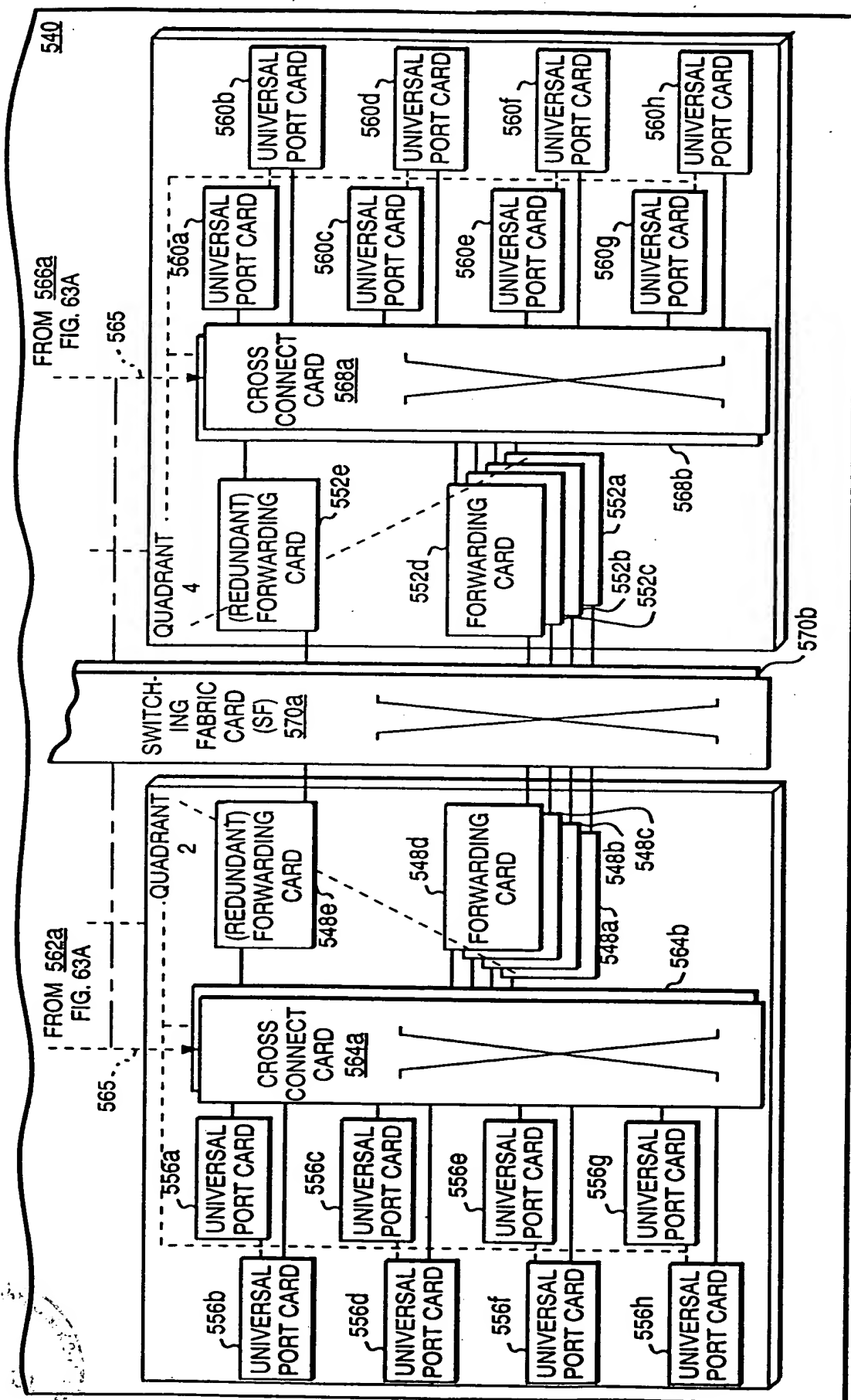


FIG. 63B

ADMINISTRATION MANAGED DEVICE TABLE 1014'

LID	HOST ADDRESS	PORT ADDRESS	RETRY	TIMEOUT	ADMIN. PASSWORD	PROV. PASSWORD	VIEWER PASSWORD	1014e' 1014f'	
								PHYSICAL ID	PHYSICAL ID
9046	192.168.9.202	1521			TEAM 1	TEAM 2	TEAM 3		
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•

FIG. 64

FOUO 92695260

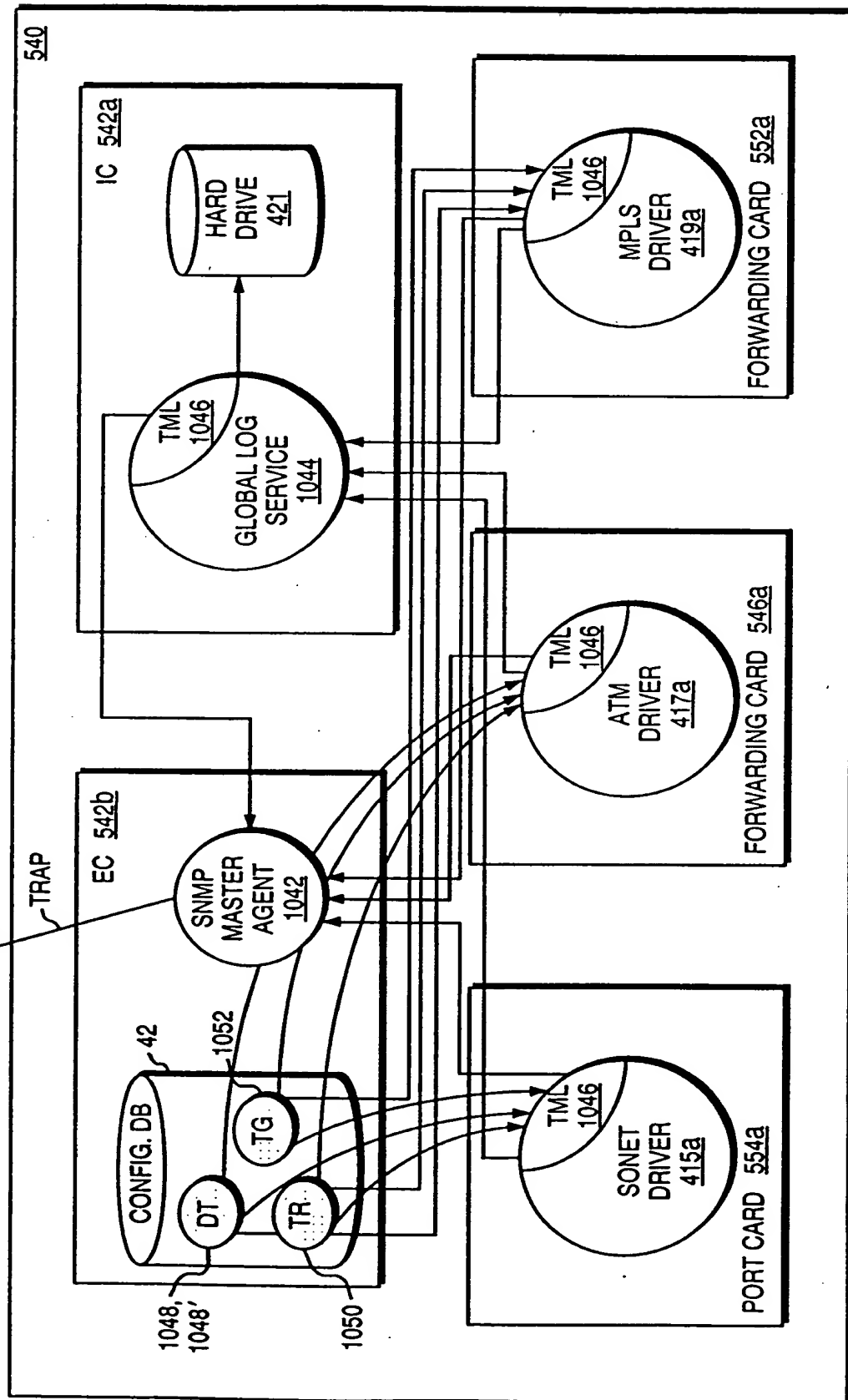
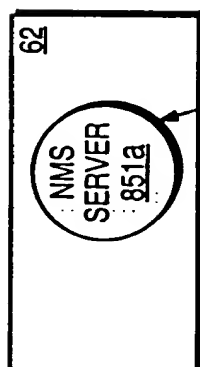


FIG. 65

898

FIG. 66A

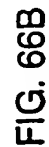
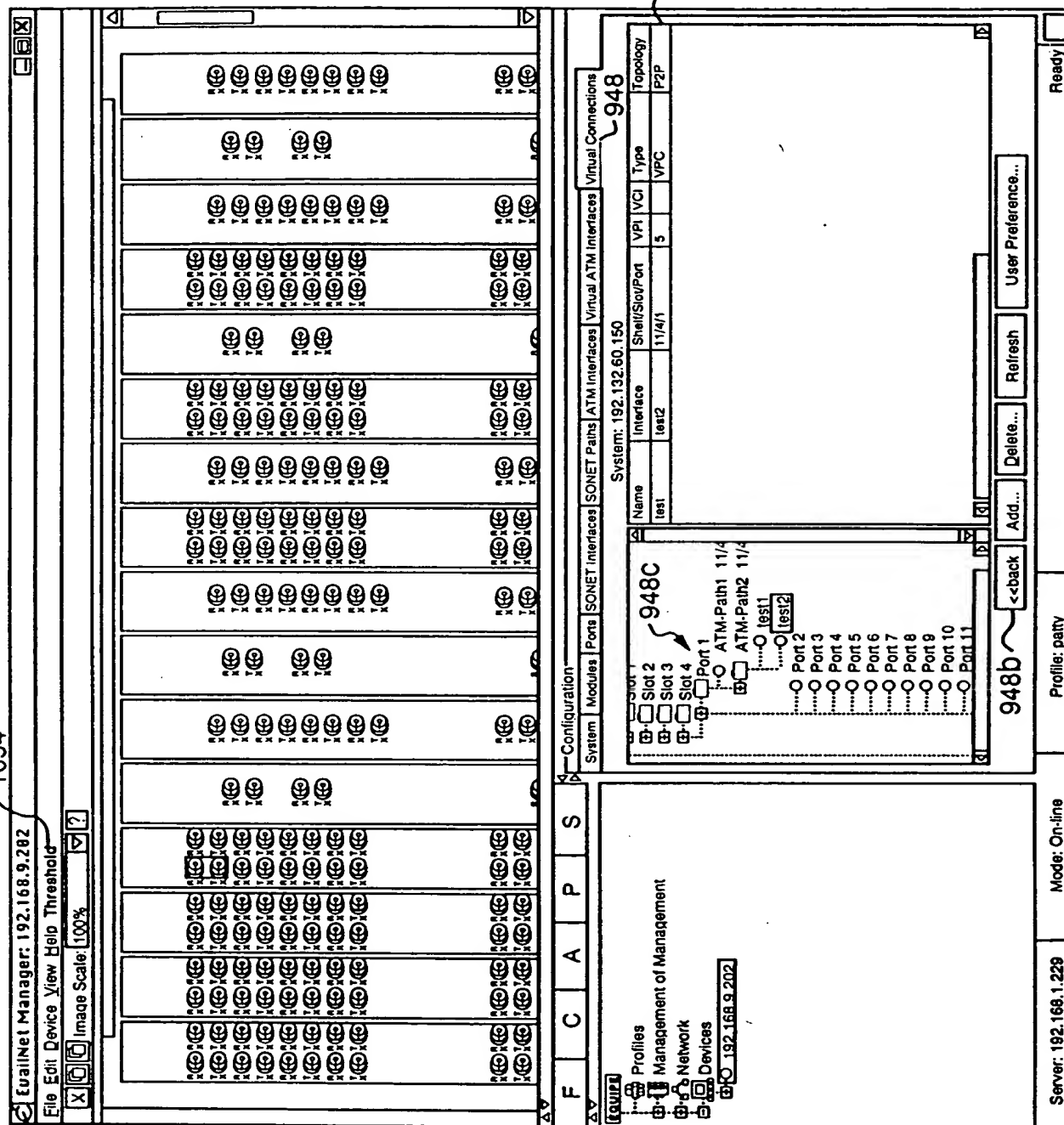


FIG. 66B



FIG. 66C



10/2/2000 06:03:26

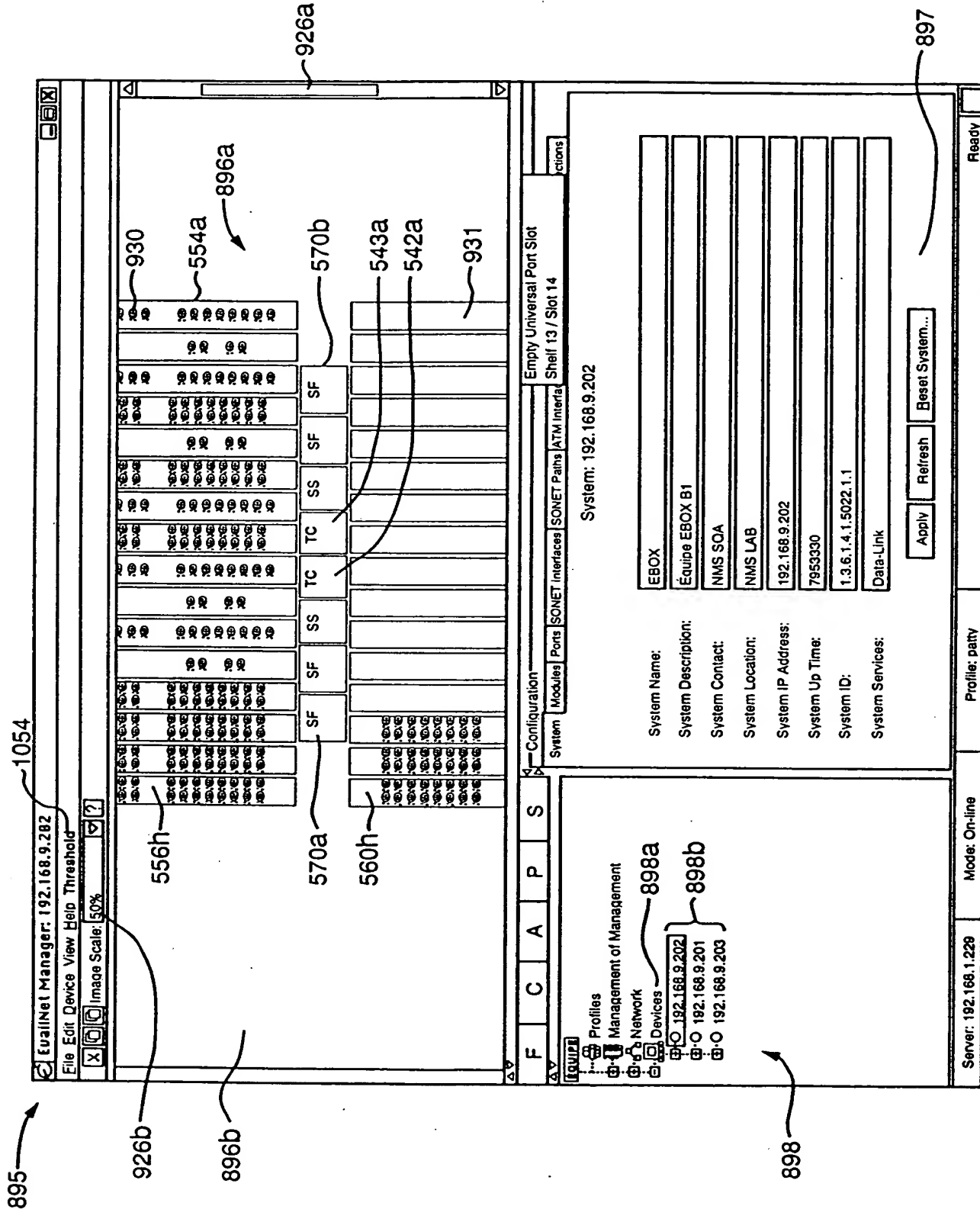


FIG. 66E

102689-67

1056

THRESHOLD DIALOG BOX

1056a RESOURCE:

1056b ATTRIBUTE:

1056c THRESHOLD RULE:

1056d SAMPLING FREQUENCY:

1056e ACTION:

1056o ☐ LOG

1056n ☐ NMS

1056j

1056k

1056l

1056m

OK

CANCEL

1056f

1056g

1056h

1056i

1056p

FIG. 67

10/28/95 9:55:46

DYNAMIC THRESHOLD TABLE 1048

1048a RESOURCE ID	1048c ATTRIBUTE	1048d SAMPLING FREQ.	1048e ACTION	1048f RULE
901	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	IF ATTRIBUTE > 10
901	PATH ERRORS (PATH END)	15 min	TRAP	IF ATTRIBUTE < 5 OR > 10
901	PATH ERRORS (PATH END)	5 min	LOG & TRAP	IF ATTRIBUTE < 5 OR > 10
• • •	• • •	• • •	• • •	• • •
5054	FAILED CALL ATTEMPTS	10 min	TRAP	IF ATTRIBUTE > 8 BETWEEN 8:00am-7:00pm OR > 2 BETWEEN 7:00pm-8:00am
5054	HCS ERRORS	12 min	TRAP	IF ATTRIBUTE > 13
• • •	• • •	• • •	• • •	• • •
7312	RX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE < 4
7312	TX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE = 0
• • •	• • •	• • •	• • •	• • •

FIG. 68

102230" 96695460

DYNAMIC THRESHOLD TABLE 1048'

1048a'	1048b'	1048c'	1048d'	1048e'	1048f'
THR. GROUP LID	RESOURCE	ATTRIBUTE	SAMPLING FREQ.	ACTION	RULE
8312	SONET PATH	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	IF ATTRIBUTE > 10
8312	SONET PATH	PATH ERRORS (PATH END)	15 min	TRAP	IF ATTRIBUTE < 5 OR > 10
8312	SONET PATH	PATH ERRORS (FAR END)	5 min	LOG & TRAP	IF ATTRIBUTE < 5 OR > 10
• • •	• • •	• • •	• • •	• • •	• • •
8433	ATM IF	FAILED CALL ATTEMPTS	10 min	TRAP	IF ATTRIBUTE > 8 BETWEEN 8:00am-7:00pm OR > 2 BETWEEN 7:00pm-8:00am
8433	ATM IF	HCS ERRORS	12 min	TRAP	IF ATTRIBUTE > 13
• • •	• • •	• • •	• • •	• • •	• • •
8542	VIRTUAL CONN.	RX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE < 4
8542	VIRTUAL CONN.	TX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE = 0
• • •	• • •	• • •	• • •	• • •	• • •

FIG. 69A

THRESHOLD GROUP TABLE 1052

1052a	RESOURCE ID	THRESHOLD GROUP LID	1052b
	901	8312	
	902	8313	
	903	8312	
	⋮	⋮	
	5054	8433	
	⋮	⋮	
	7312	8542	

FIG. 69B

T02280 92695460

DYNAMIC THRESHOLD TABLE 1048''

1048a''	1048b''	1048c''	1048d''	1048e''	1048f''	1048g''	1048h''	1048i''	1048j''	1048k''	1048l''	1048t''
THR. GROUP LID	RESOURCE	ATTRIBUTE	SAMPLING FREQ.	ACTION	RULE LID	VARIAB. a	VARIAB. b	VARIAB. c	VARIAB. d	VARIAB. e	VARIAB. f	VARIAB. n
8312	SONET PATH	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	9421	10						
8312	SONET PATH	PATH ERRORS (PATH END)	15 min	TRAP	9422	5	10					
8312	SONET PATH	PATH ERRORS (FAR END)	5 min	LOG & TRAP	9422	5	10					
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
8433	ATM IF	FAILED CALL ATTEMPTS	10 min	TRAP	9423	8	8:00am	7:00pm	2	7:00pm	8:00am	
8433	ATM IF	HCS ERRORS	12 min	TRAP	9421	13						
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
8542	VIRTUAL CONN.	RX TRAFFIC	1 HOUR	TRAP	9424	4						
8542	VIRTUAL CONN.	TX TRAFFIC	1 HOUR	TRAP	9425							
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 70A

THRESHOLD RULE TABLE 1050

1050a	RULE LID	EXPRESSION	1050b
1050c	9421	IF ATTRIBUTE > a	
	9422	IF ATTRIBUTE < a OR > b	
	9423	IF ATTRIBUTE > a BETWEEN b-c OR > d BETWEEN e-f	
	9424	IF ATTRIBUTE < a	
	9425	IF ATTRIBUTE = 0	
	9426	RMON	
	9427	FOE	
	9428	IF ATTRIBUTE < a GO TO RULE LID b	
	⋮	⋮	

FIG. 70B

T02230 92695400

DYNAMIC THRESHOLD TABLE 1048'''

THR. GROUP LID	1048a''' 1048b'''	1048c'''	1048d'''	1048e'''	1048f'''	1048g'''	1048h'''	1048i'''	1048j'''	1048k'''	1048l'''	1048m'''	1048n'''	1048o'''	1048p'''	1048q'''	1048r'''	1048s'''	1048t'''	1048u'''
THR. GROUP LID	RESOURCE	ATTRIBUTE	SAMPLING FREQ.	ACTION	RULE LID	VARIAB. a	VARIAB. b	VARIAB. c	VARIAB. d	VARIAB. e	VARIAB. f	VARIAB. g	VARIAB. h	VARIAB. i	VARIAB. j	VARIAB. k	VARIAB. l	VARIAB. m	VARIAB. n	ACTIVE/ INACTIVE
8312	SONET PATH	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	9421	10														
8312	SONET PATH	PATH ERRORS (PATH END)	15 min	TRAP	9422	5	10													
8312	SONET PATH	PATH ERRORS (FAR END)	5 min	LOG & TRAP	9422	5	10													
8433	ATM IF	FAILED CALL ATTEMPTS	10 min	TRAP	9423	8	8:00am	7:00pm	2	7:00pm	8:00am									
8433	ATM IF	HCS ERRORS	12 min	TRAP	9421	13														
8542	VIRTUAL CONN.	RX TRAFFIC	1 HOUR	TRAP	9424	4														
8542	VIRTUAL CONN.	TX TRAFFIC	1 HOUR	TRAP	9425															
8588	HARD DRIVE	UNUSED DISK SPACE	5 min	LOG	9428	80	9424													ACTIVE
8588	HARD DRIVE	UNUSED DISK SPACE	30 sec	TRAP	9424	20														INACTIVE

FIG. 71

TO 2280 SEE 695460

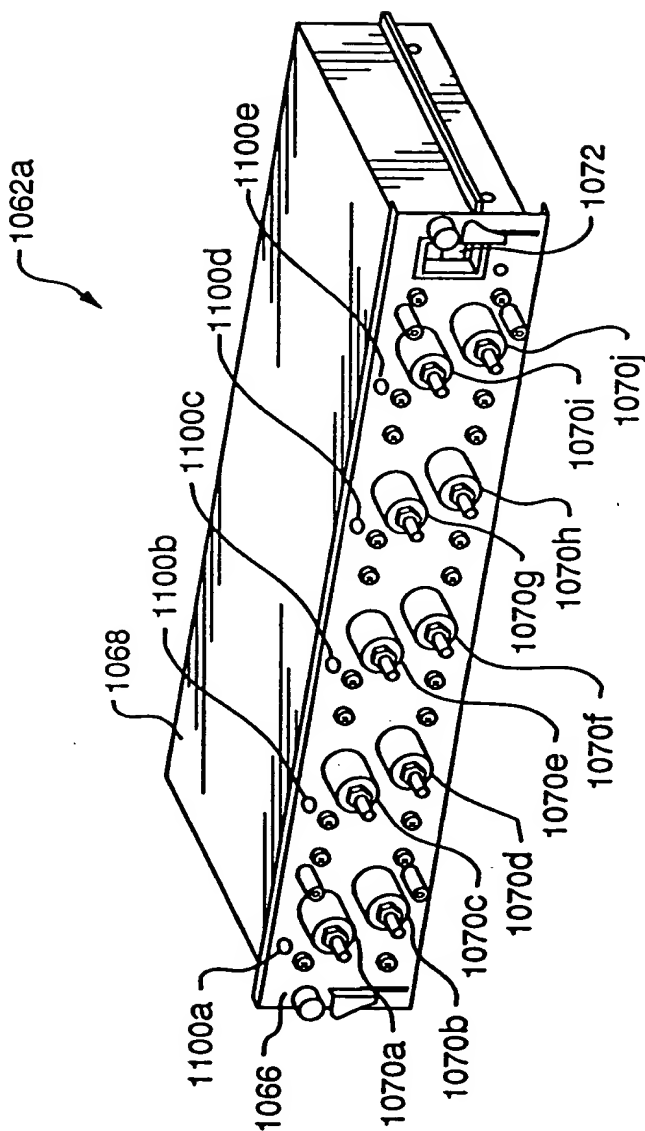


FIG. 72A

FO/280-9E695/60

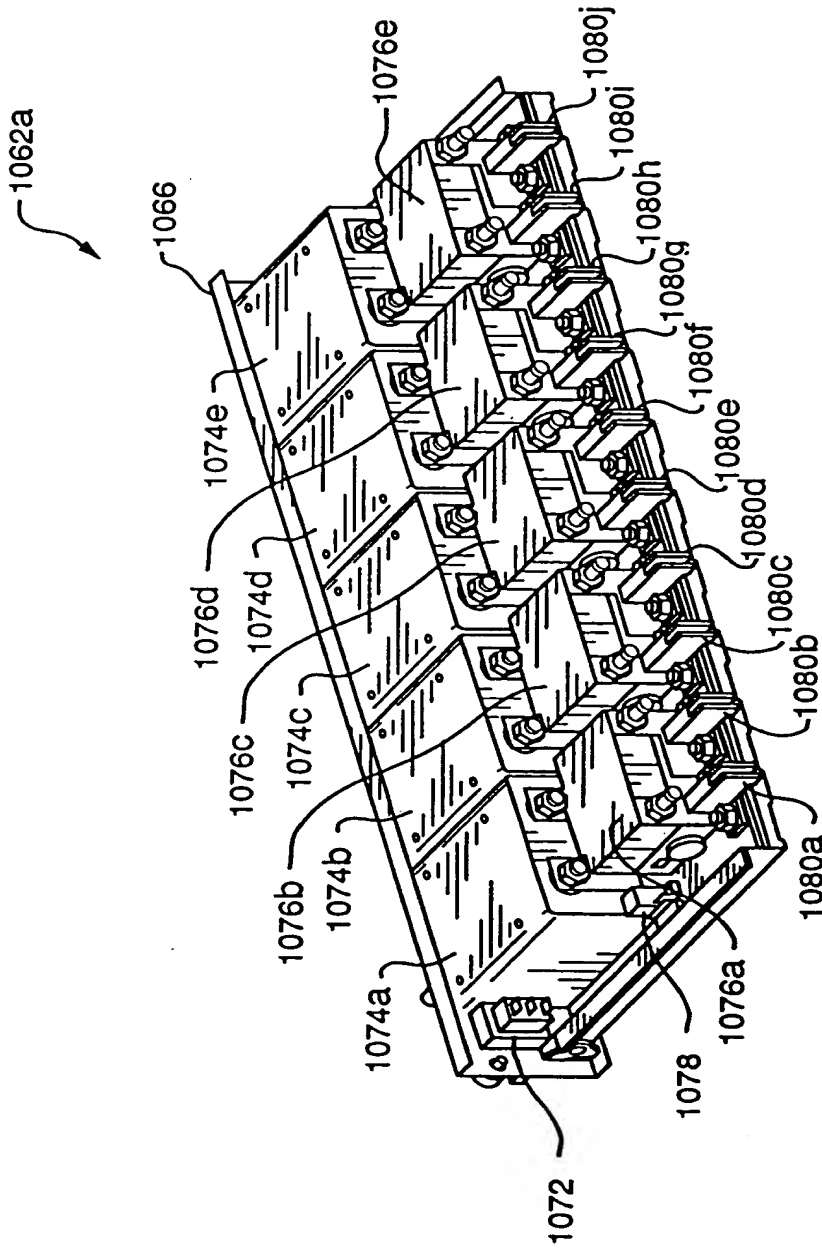


FIG. 72B

102689-67

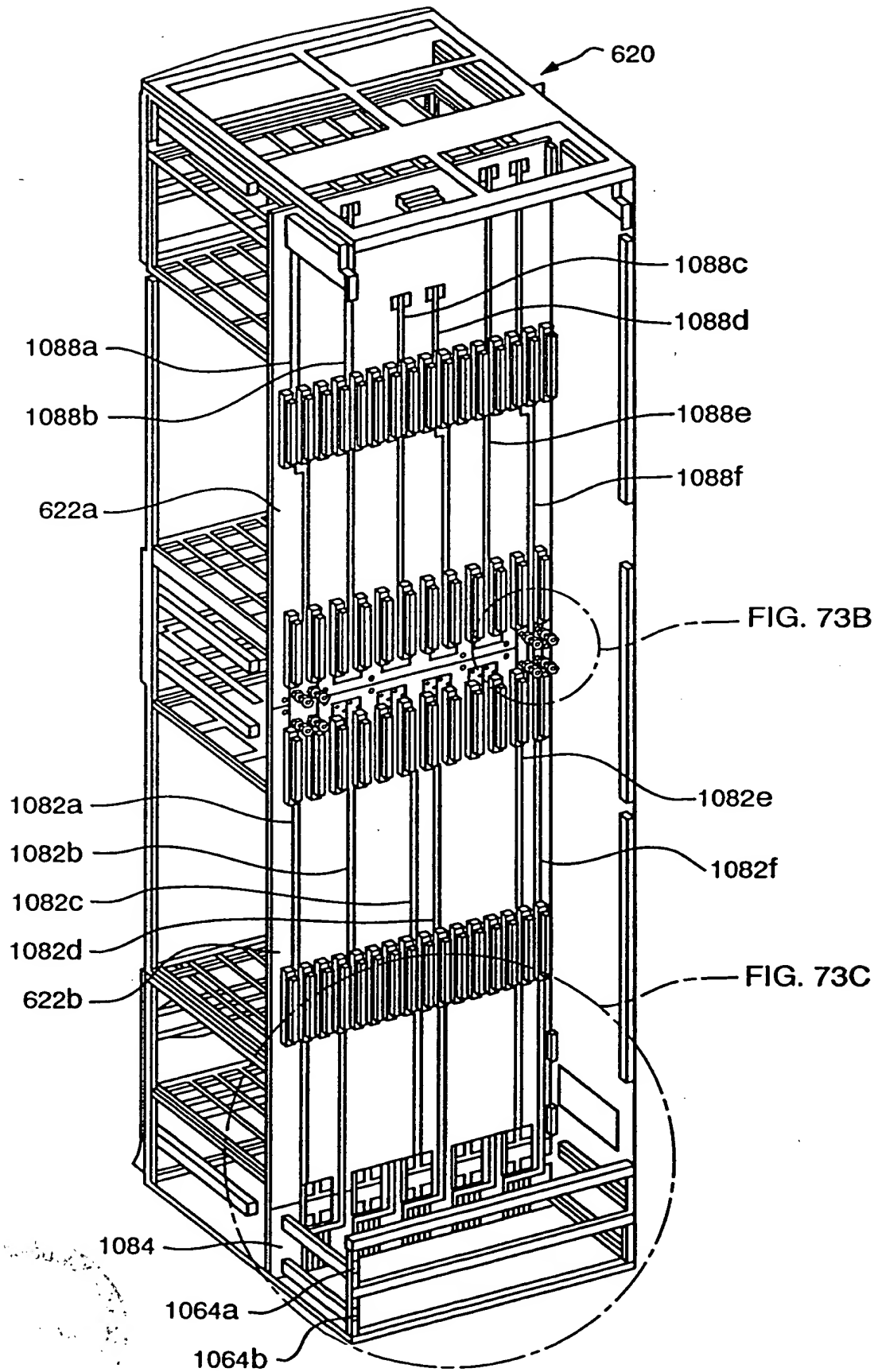


FIG. 73A

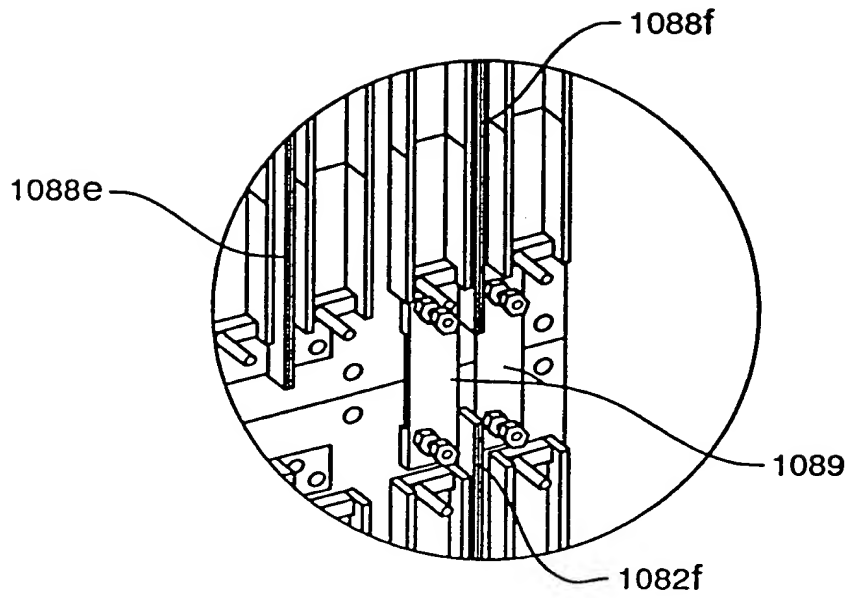


FIG. 73B

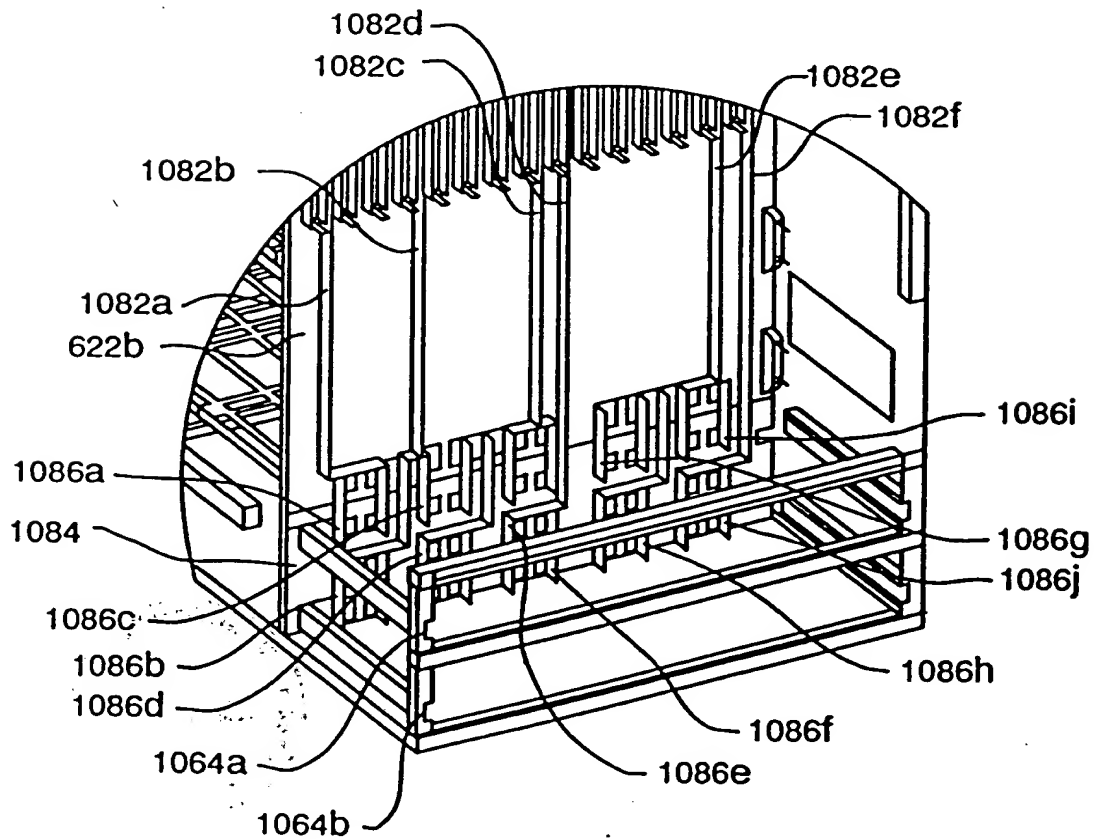


FIG. 73C

102689-67

TO 2280-2695/60

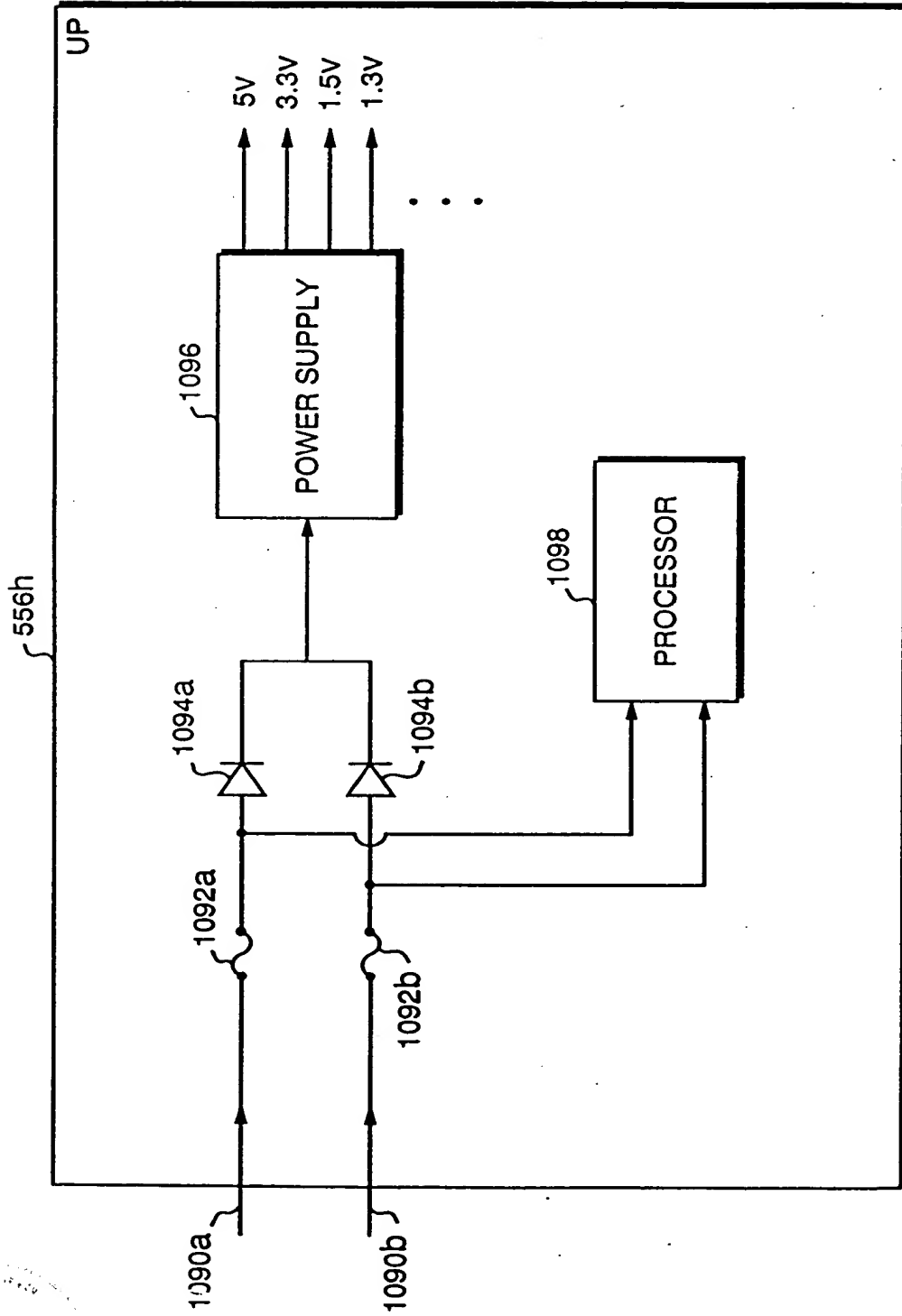


FIG. 74